

Final 158652
DRAFT FEDERAL ON-SCENE COORDINATOR'S REPORT
FOR
AREA 2 SITE Q *T.Y.*
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS *7/31/00*
TDD: S05-9909-015
PAN: 9P1501RAXX

July 31, 2000

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Emergency and Enforcement Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604

Prepared by:

Paul M. Atkociunas

Paul Atkociunas, START Project Manager

Date:

7/31/00

Reviewed by:

Patrick Zwillig

Patrick Zwillig, Assistant START Program Manager

Date:

7/31/00

Approved by:

Dan Sewall

Dan Sewall, START Program Manager

Date:

7/31/00



ecology and environment, inc.

International Specialists in the Environment

33 North Dearborn Street, Chicago, Illinois 60602
Tel. 312/578-9243, Fax: 312/578-9345

recycled paper

Executive Summary

SITE: Area 2 Site Q

LOCATION: 70 Cargill Elevator Road
Cahokia, Illinois 62206

PROJECT DATES: October 18, 1999 to April 19, 2000

INCIDENT DESCRIPTION: Area 2 Site Q (Site Q) is an inactive industrial and municipal waste disposal area encompassing approximately 90 acres. Site Q was used as a waste disposal area for industrial and municipal wastes between the years of 1966 and 1973 and was operated by Sauget and Company. Site Q is located in west-central St. Clair County, Illinois adjacent to the Mississippi River in the towns of Cahokia and Sauget. The release of hazardous substances at Site Q was from the deliberate burial of wastes (drums, containers, and bulk waste). During previous investigations conducted by the Illinois Environmental Protection Agency and the U.S. Environmental Protection Agency wastes and soils on site were found to be contaminated with high levels of polychlorinated biphenyls (PCBs) and heavy metals (particularly arsenic, lead, chromium, mercury, and cadmium). The site is located on the river side of a flood control levee constructed by the U.S. Army Corps of Engineers. Due to its location, the site is highly vulnerable to flooding from the adjacent Mississippi River. Access to the site is unrestricted and local residents use the site for fishing, hunting and off-road motorcycling. The removal action was undertaken to mitigate threats to the public health and environment posed by the presence of drums at the surface, the possibility of drums beneath the surface, and contaminated soils.

ACTIONS: The United States Environmental Protection Agency (U.S. EPA) initiated this removal action on October 18, 1999. The ERRS contractor began to excavate site wastes on October 26, 1999. Eight excavation areas of various sizes were investigated and have had waste removed. This removal action addressed approximately 25-acres of site property. Based upon analytical results of the separate waste piles, two waste streams were developed. A low level PCB waste stream (soil < 50 ppm) was shipped via truck to the Milam Recycling and Disposal Facility located in East St. Louis, Illinois. One hundred sixty three trucks, each containing approximately 20 tons of low level PCB waste were shipped to the disposal facility. A PCB waste stream (soil/debris containing > 50 ppm of PCBs) was shipped via rail car to the Safety-Kleen Lone & Grassy Mountain facility, located in Waynoka, Oklahoma. One hundred forty one rail cars, each containing approximately 90 tons of PCB waste were shipped to the disposal facility. Drums (3,271) excavated on site have been crushed and added to either waste stream. Excavated drums that were void of waste material were added to either PCB waste stream; and drums that contained waste were added to the > 50 ppm PCB waste stream. On April 5, 2000, removal of site wastes was completed (approximately 17,032 tons of waste was removed from site). Drums/containers with distinguishing marks and labels have been documented and were added to the PCB waste stream or archived for future investigations. On April 13 and 17, 2000, the START contractor collected 24 subsurface soil samples in former excavation areas to determine concentrations of PCBs that remain in soils. Samples were collected below cover material in areas where drums and/or bulk wastes were removed. Analytical results of several of these samples indicate that concentrations of PCBs in site soils exceeds the removal action limit of 50 ppm. Due to lack of

topsoil needed to completely cap the excavation areas, municipal waste is visible on the limited portions of the site. Due to limited resources and the amount of contamination this removal action could not address all the contamination present on the site.

Kevin Turner, OSC
U.S. EPA, Region 5

Table of Contents

<u>Section</u>	<u>Page</u>
Executive Summary	i
List of Figures	v
List of Tables	vi
OSC Report Appendices List	vii
I. Summary of Events	1
A. Site Conditions and Background	1
1. Initial situation	1
2. Location of hazardous substance(s)	2
3. Cause of release or discharge	3
4. Efforts to locate and obtain response by responsible parties	3
B. Organization of the Response	3
C. Injury or Possible Injury to Natural Resources	3
1. Content and time of notice to natural resource trustees	3
2. Trustee damage assessment and restoration activities	4
D. Chronological Narrative of Removal Activities	4
1. Threat abatement actions taken	4
2. Treatment, disposal, or alternative technology approaches pursued	11
3. Public information and community relations activities	11
E. Resources Committed	12
II. Effectiveness of Removal Activities	12
A. Actions Taken by Potentially Responsible Parties	12
B. Actions Taken by State and Local Agencies	12
C. Actions Taken Federal Agencies and Special Teams	12
D. Actions Taken by Contractors, Private Groups, and Volunteers	13
III. Difficulties Encountered	13
A. Items That Affected the Response	13
B. Issues of Intergovernmental Coordination	13

	C.	Difficulties Interpreting, Complying With, or Implementing Policies and Regulations	13
IV.		Recommendations for New Policy or Regulations, and Changes in Current Regulations and Response Plans	13
	A.	Means to Prevent a Recurrence of the Discharge or Release	13
	B.	Means to Improve Removal Activities	13
	C.	Recommendations for New Policy or Regulations, and Changes in Current Regulations and Response Plans	14

	<u>Attachment</u>	<u>Page</u>
A	Figures	A-1
B	Tables	B-1

List of Figures

<u>Figure</u>	<u>Page</u>
1 Site Location Map	A-1
2 Site Features Map (Completed by U.S. EPA Fields Team)	A-2
3 Removal Areas Map (Completed by U.S. EPA Fields Team)	A-3
4 Sample Points Map (Completed by U.S. EPA Fields Team)	A-4
5 Removal Areas and Sample Points Map (Completed by U.S. EPA Fields Team)	A-5

List of Tables

<u>Table</u>	<u>Page</u>
1 Organization of Response	B-1
2 Sample Designations and Analysis Performed	B-2
3 Soil Sample Analytical Results	B-9
4 Drum Sample Analytical Results	B-11
5 Waste Pile Information	B-
6 Waste Pile Sample Analytical Results	B-
7 Railroad Property Sampling Analytical Results	B-
8 Analytical Results from Lead Air Sampling	B-
9 Treated Soil Pile Information	B-
10 Treated Soil Piles Analytical Results	B-
11 Groundwater Sample Analytical Results	B-
12 Analytical Results of Labeled Drum Samples	B-
13 Waste Disposal Summary	B-
14 Area 4 Road Samples	B-
15 Waste Piles 8-12 Analytical Results	B-
16 Post Removal Soil Sample Descriptions	B-
17 Post Removal Soil Sample Analytical Results	B-

**Emergency and Enforcement Response Branch
Office of Superfund, U.S. EPA, Region V
OSC Report Standard Appendices List**

Site Name: Area 2 Site Q
Site ID#: 05XX
Contract #: 68-S5-98-01
Delivery Order #: 9801-05-047

1. Operational Files	<u>ID#</u>
- Action Memos/Additional Funding	1-A
- POLREPs	1-B
- Site Entry/Exit Log	1-C
- Hot Zone Entry/Exit Log	1-D
- Site Safety Plan	1-E
- Equipment & Expendables Log	1-F
- Site Logs	1-G
- Site Computer Disks	1-H
- Daily Work Orders	1-I
- Site Monitoring Logs	1-J
- Site Maps	1-K
- Site Contacts/Business Cards	1-L
- Site Photos/Videos	1-M
- General Correspondence/Information	1-N
- Newspaper Articles	1-O
- Enforcement	1-P
- Other: _____	1-Q
2. Financial Files	<u>ID#</u>
- Delivery Orders	2-A
- START Technical Direction Documents	2-B
- Daily Cost Reporting US EPA Form 1900-55's	2-C
- ERCS Invoices	2-D
- RCMS Cost Estimates	2-E
- Subcontractor Bid Sheets	2-F
- START Cost Documentation	2-G
- Other: _____	2-H
3. Technical Files	<u>ID#</u>
- START Site Assessment	3A1
- Other Reports: _____	3A2
- Analytical Results/QA/QC	3-B
- Manifests	3-C

- Disposal Information	3-D
- Drum/Vat/Sample Logs	3-E
- Compatibility Results	3-F
- Chains of Custody	3-G
- Waste Profile Sheets	3-H
- Other: _____	3-I

* Portions of these OSC Report Appendices may contain confidential business information or enforcement-sensitive information and must be reviewed by the Office of Regional Counsel prior to release to the public.

I. SUMMARY OF EVENTS

A. Site Conditions and Background

1. Initial Situation

Area 2 Site Q (Site Q) is part of the Sauget Area sites that consist of several municipal and industrial waste landfills; surface disposal areas; and past excavation areas suspected to be filled or partially filled with unknown industrial wastes. The entire Sauget Site area is divided into Area 1 and Area 2. Sauget Area 2 is made up of five waste disposal areas (Sites O, P, Q, R, S). Sauget Area 2 is not listed on the NPL; however, listing activities are now underway. Site Q occupies 90 acres and was actively used as a waste disposal area by Sauget and Company for industrial and municipal wastes from the mid 1950's to 1973. Most of Site Q is presently owned by Eagle Marine Industries, Inc. of St. Louis, Missouri.

Site Q is located in west-central St. Clair County, Illinois adjacent to the Mississippi River (latitude 38°34'93.5" N, longitude 90°12'0.6" W) in the towns of Cahokia and Sauget. Across the river lies the city of St. Louis, Missouri. A site location map is included in Attachment A. The site is bordered by Site R and the Old Sauget Power Plant on the north; the United States Corps of Engineers (U.S. COE) flood control levee on the east; agricultural land on the south; and the Mississippi River on the west. A railroad spur divides the site, running northeast from Cargill Elevator Road to the northern one-third of the property. The area of interest for this removal action consists of the area east and south of the railroad spur, north of Cargill Elevator Road. During this removal action, approximately 25 acres of contamination were addressed. A site features map, completed by the United States Environmental Protection Agency (U.S. EPA) Fields Team, is included in Attachment A. An underground 14-inch, high pressure petroleum products Explorer pipeline lies along the western edge of the area of interest. The area of interest contains four ponds (north, south, east, and west) that are filled with water during various times of the year or during flooding. The nearest resident is located approximately 0.75 mile southeast of the site. Local residents use the ponds for fishing, hunting, and off-road motorcycling. The site contains evidence of trespassing (i.e., spent ammunition casings, and evidence of recreational vehicle use).

A number of investigations have taken place at Site Q. In June 1983, as a result of finding buried drums at the northern section of the site, a U.S. EPA Field Investigation Team (FIT) contractor collected 33 subsurface soil samples at the site. A total of 63 of 112 organic compounds from the priority pollutant list were detected. In October of 1984, Illinois Environmental Protection Agency (Illinois EPA) personnel conducted inspections to determine the scope of proposed cleanup work at the site. In March of 1985, the Illinois Attorney General's office reentered a suit against Sauget and Company, ordering a final cover over the site and requesting a civil penalty. As part of an Expanded Site Investigation conducted by Illinois EPA in March of 1987, a monitoring well was installed in the pond area of Site Q (well No. EE-09). A sample

collected from this well showed the presence of benzene at 1J parts per billion (ppb; J=estimated value), chlorobenzene (33 ppb), and di-n-octyl phthalate (4J ppb). As a result of severe flooding on the Mississippi River in the summer of 1993, waste materials including drums were left exposed along the shoreline side of Site Q. In May 1994, samples collected by the U.S. EPA Technical Assistance Team (TAT) contractor, Ecology and Environment Inc. (E & E), detected semivolatile organic compounds and polychlorinated biphenyls (PCBs) from the exposed wastes. One sample contained 260,000 parts per million (ppm) of PCBs. Illinois EPA collected 11 surface soil and waste samples from the east and west ponds in Site Q in November 1994. Analytical results of samples indicated the presence of heavy metals, arsenic (216 ppm), lead (195,000 ppm), and mercury (4.9 ppm). PCBs were also detected at concentrations as high as 223,000 ppb. In 1995, a removal action was conducted by U.S. EPA to remove the waste materials (including exposed drums from the banks of the Mississippi River) and repair the exposed sections of the fill area.

In August 1997, E & E completed a Preliminary Ecological Risk Assessment for the U.S. EPA to evaluate the risks to local wildlife from contamination from the area. The Preliminary Ecological Risk Assessment concluded that elevated concentrations of cadmium, chromium, lead, mercury, and PCBs could decrease species diversity of the area including sensitive species. Heavy metals and PCBs detected on site could also bioconcentrate in fish tissue at high levels. Local fisherman who use the site and consume their catch could be exposed to the high levels of metals and PCBs.

The primary drinking water source for nearby residences is from a water intake along the Mississippi River, located approximately 3 miles north of the site. Groundwater flow is primarily towards the southwest towards the Mississippi River. At least 50 residents in the area obtain drinking water from private wells. The nearest drinking water well is located on Judith Lane, approximately 1 mile east of Site Q. More than eight industrial wells are located within a 3-mile radius of the site. The land surrounding the site is primarily used for agricultural and industrial purposes. Commercial activities are located northeast of the site.

The surface of Site Q is littered with demolition debris, metal wastes, and areas of exposed drums. Surface runoff at the area of interest is primarily toward the four ponds. During the summer of 1993, flood waters from the Mississippi River inundated the entire site. The site is vulnerable to erosion and scouring during flooding because it lies on the river side of the flood control levee.

2. Location of hazardous substance(s)

Bulk waste, contaminated soil, and/or drums were found in eight excavation areas during the removal action. 3,271 drums were removed from the site; the drums contained solvents, paint waste, solidified material, containers, and other various wastes. Miscellaneous containers and medical waste (hypodermic needles) were also documented on site. Additional areas of known contamination or drum burial areas are present on site as well. Drums are visibly protruding from the ground north of the

northwest corner of the site. On-site areas have been excavated based upon visual observations, discussions with witnesses, aerial photographs, and results of surveys with a magnetic locator. On April 13, 2000, the U.S. EPA Fields Team mapped site features using a global positioning system. A map showing removal areas is included in Attachment A. Environmental Restoration (ER) excavated 2 drums from Area A, over 500 from Area 1, over 50 from Area 2, over 300 from Area 3, 454 from Area 4, no drums from Area 5, 1,165 from Area 6, 690 from Area 7, and 92 from Area 8. The four on-site ponds remained dry during the removal action.

3. Cause of the release or discharge

The release of hazardous substances at Site Q was from the deliberate burial of wastes (drums, containers, and bulk waste). Waste was buried in unlined pits and found at and below ground surface. Waste was exposed to groundwater, surface water, and/or air. Over time, buried drums and miscellaneous containers were exposed to varying seasonal temperatures (freeze/thaw), rain, periodic flooding, and snowmelt. These weather conditions resulted in further deterioration of the drums, erosion of surrounding soils, and the continued release of hazardous wastes described herein to the surrounding soil, surface water, and groundwater.

4. Efforts to locate and obtain response by responsible parties

U.S. EPA is investigating Site Q and may initiate cost recovery actions.

B. Organization of the Response

The U.S. EPA removal action began on October 18, 1999. The removal action was conducted in four phases: site setup; waste excavation and sampling; removal and disposal of waste; and pit backfilling, grading, seeding and site demobilization.

Under Contract Number 68-S5-98-01, Delivery Order 9801-05-047, removal activities were awarded to the U.S. EPA Emergency and Rapid Response Services (ERRS) contractor, Environmental Quality Management (EQM), with subcontractor work provided by ER. The actions described in this report were performed by U.S. EPA under authority and funding of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and were completed on April 19, 2000. Attachment B, Table 1 outlines the agencies or parties that provided response, assessment or disposal assistance, and the action(s) and roles each served during the Site Q removal action.

C. Injury or Possible Injury to Natural Resources

1. Content and time of notice to natural resource trustees

The Preliminary Ecological Risk Assessment, completed by E & E in August of 1997, concluded that elevated concentrations of cadmium, chromium, lead, mercury, and PCBs could decrease the species diversity of the area including sensitive species.

Heavy metals and PCBs detected on site could also bioconcentrate in fish tissue at high levels. Local fisherman who use the site and consume their catch could be exposed to high levels of metals and PCBs. During the removal action white-tail deer (*Odocoileus virginianus*) and coyotes (*canis latrans*) were seen on site, while bald eagles (*Haliaeetus leucocephalus*) were seen flying above the site. Natural resource trustees were periodically updated about the U.S. EPA removal action.

2. Trustee damage assessment and restoration activities

No formal damage assessment has been conducted.

D. Chronological Narrative of Removal Activities

1. Threat abatement actions taken

The removal action at Site Q was conducted under the authority of CERCLA Section 104(a). On September 24, 1999, U.S. EPA Emergency Response Branch (ERB) approved the expenditure of up to \$2.4 million dollars to complete a removal action at Site Q. The removal action was undertaken to mitigate threats to the public health and environment. U.S. EPA mobilized ERRS under Contract Number 68-S5-98-01, Delivery Order 9801-05-047 and START under Technical Direction Document S05-9909-015. 3,271 drums and 17,032 tons of soil were excavated from the site. 13,772 tons of soil were profiled as a PCB waste, and 3,260 tons of soil were profiled as a low level PCB waste. Approximately 5,400 tons of soil were treated with Enviroblend to bind leachable lead. Drums/containers with distinguishing marks and labels were documented or archived for future investigations.

OCTOBER 1999

On October 18, 1999 ERRS and START mobilized to the site. During the week, ERRS prepped the site by removing weeds and obstacles for the site trailers, brush cut pathways around the site for access, and made entryways down into the two ponds. A storage/break trailer and office trailer arrived on site. On October 25, 1999, OSC Turner, START, ERRS contractor EQM and their subcontractor ER mobilized to the site to begin removal field work. A health and safety plan was prepared by START and reviewed by all site personnel. Excavations began at the southern end of the roadway that divides the two ponds (Area A). Aerial photos had indicated that waste was placed along this roadway, and visual observations confirmed waste at the surface. On October 27 and 29, 1999, START collected six surface soil samples (SS-01, SS-02, SS-03, SS-04, SS-05, and SS-06) and two subsurface soil samples (SB-01 and SB-02) within the west pond. Samples SB-01 and SB-02 were collected at sample SS-02 and SS-03 locations, respectively. Samples collected, dates sampled, and analysis performed during the removal action are summarized on Attachment B, Table 2. Analytical results of samples SS-01 through SS-06, and SB-01 and SB-02 are presented in Attachment B, Table 3. Analytical results indicate the presence of metals, semivolatile organic compounds (SVOCs), and PCBs in the samples. Sample SB-02 contained 7.15 milligrams per liter (mg/L) of toxicity characteristic leaching procedure

(TCLP) lead, sample SB-01 contained 270 mg/kg of benzo(a)anthracene, 813 mg/kg of benzo(a)pyrene, and 260 mg/kg of benzo(g,h,i)perylene. Aroclor 1254 and 1260 were detected in all eight soil samples with a maximum total PCB concentration of 3,150 micrograms per kilogram ($\mu\text{g/kg}$) detected in sample SB-01.

ER encountered drum carcasses at depth on the west side of the area between the east and west ponds. START performed Chlor-n-soil PCB screening tests along the area. Three of seven samples indicated PCBs present at concentrations exceeding 50 ppm. Due to the elevated PCB concentrations, excavation was stopped along the roadway. Excavation activities continued in the east pond (Area 1). During the early stages of the removal, drums were individually numbered. However, due to the number of drums excavated, ER ceased numbering individual drums. Many of the drums excavated from the site were severely deteriorated. Excavated drums were empty or filled with solids, liquids and/or earthen material. On October 29, 1999, START collected samples Drum-01 and Drum-02, that consisted of waste material from two separate drums being deposited into the soil. Analytical results of drum samples are summarized in Attachment B, Table 4. ER visually screened and segregated the excavated material. START performed hazard categorization (hazcat) tests to determine if excavated material contained hazardous constituents. Based upon the results or project limitations, the material was either added to waste piles for off-site disposal or backfilled in the excavation pits. During the course of the removal action, drums were stored on a plastic liner. Drums/containers with distinguishing marks and labels were documented and/or archived for future investigations. Much of the excavation in Area 1 was conducted in Level B personal protective equipment (PPE). Based upon discussions with OSC Turner, START, RM Davis, and ERRS health and safety personnel, workers completed excavation activities in the remaining areas in level C PPE providing breakthrough on cartridges did not occur.

NOVEMBER 1999

ERRS continued excavating Area 1, and began excavation on Areas 2 and 3 within the east pond. By the end of the month, approximately 5,000 cubic yards of contaminated soil were excavated from the site. On November 18, 1999, ERRS excavated a ditch through the east pond to direct water from the excavation areas to the southeast portion of the pond. On November 3, 1999, START began to collect samples of waste material staged on site for waste characterization and disposal purposes. A list of waste piles, the area(s) where the waste material was excavated, and the dates the waste was shipped off site is presented in Attachment B, Table 5. Sample Pile-01 was a composite sample collected from waste piles 1 and 2. Analytical results of waste piles 1,2,3 and 8 are presented in Attachment B, Table 6. On November 10, 1999, START collected sample Pile-02, which was collected from waste material staged on site. On November 18, 1999, START collected sample Pile-02A and Pile-03. Sample Pile-02A was a composite sample collected from waste pile 2, sample Pile-03 was collected from waste pile 3. Analytical results indicate the waste material contained volatile organic compounds (VOCs), SVOCs, metals, pesticides, PCBs, and had a flashpoint below 140 degrees Fahrenheit ($^{\circ}\text{F}$). Analytical results indicate that waste piles 1 and 2 contained trichloroethene (TCE), lead, and PCBs above applicable regulatory levels. Samples

Pile-02 and Pile-02A contained TCLP TCE at 0.620 mg/L and 0.52 mg/L, respectively, which is above the regulatory level of 0.5 mg/L as defined by the 40 Code of Federal Regulations (CFR) 261. Samples Pile-02 and Pile-02A contained TCLP lead above the regulatory level of 5.0 mg/L as defined by the 40 CFR 261. Samples Pile-01, Pile-02, Pile-02A, and Pile-03 contained PCBs above the regulatory level of 50 ppm as defined in the 40 CFR 761. Disposal options of site wastes included incineration or treatment of the wastes on site to below TCLP parameters and disposal of waste at an approved landfill. The most cost-effective option was treatment of the waste piles with Enviroblend to bind leachable lead to levels below 5.0 mg/L.

Due to the site features (one access road on the site property), an alternate route for removal of site wastes was required. Disposal of site wastes was accomplished by staging site wastes to Alton and Southern Railroad property and loading the material onto gondola rail cars or by loading trucks on site property. The trucks required the use of Alton and Southern Railroad property to access and leave the site by entering the rail easement from the south and leaving the site from the rail easement on Cargill Elevator Road. ER obtained permission to use Alton and Southern Railroad property to transfer site wastes. On December 21, 1999, START collected seven composite surface soil samples (RS-01 through RS-07) on areas possibly impacted by the transfer of site wastes; sample results are located in Attachment B, Table 7. A map showing sample locations is presented in Attachment A. On January 3 and 4, 2000, ER built the access road to the rail spur, geofabric was placed along the road and covered with gravel. Transfer of site wastes required heavy equipment to cross the Explorer pipeline. On a letter dated November 18, 1999, Explorer Pipeline agreed to allow ER to cross the pipeline with heavy equipment providing ER used articulated trucks, and prior to crossing the pipeline ER installed 1-foot of soil, geofabric, and wooden mats across the entire 20-foot Explorer easement. ER complied with Explorer Pipeline's request during the removal action.

Based upon concentrations of lead in the waste material, ER collected eight lead air samples (AS-01 through AS-08) using Gillian pumps. Samples AS-01 through AS-04 were collected on November 19, 1999, while samples AS-05 through AS-08 were collected on November 20, 1999. Samples AS-04 and AS-08 were collected in the support zone, while the remainder were collected on ER crew members working in the excavation areas. Results of lead air sampling are presented in Attachment B, Table 8. Samples collected on site workers contained detectable concentrations of lead, while samples collected in the support zone did not. Crew members continued to work in Level C PPE.

ER and START collected samples Drum-03 (from drums 1-75), and sample Drum-04 (from drums 301-400). Sample material consisted of solid waste material, drums that contained liquid were not included in the samples. Analytical results of these drum samples are located in Attachment B, Table 4. Analytical results indicate the presence of VOCs, SVOCs, metals, and PCBs. Samples Drum-03 and Drum-04 contained 0.18 and 0.22J mg/L of TCLP benzene, 4.3 mg/L and 9.07 mg/L of TCLP cresols, 387 mg/L and 5.19 mg/L of TCLP lead, and 1,240 mg/kg and 2,780 mg/kg of total PCBs, respectively.

DECEMBER 1999

Approximately 865 drums and 8,300 cubic yards of material were excavated from the site by the end of December 1999. ER continued excavation of Areas 1 and 2 and began to excavate material in Area 4. START and ERRS inspected the drums that contained waste to determine the type of waste stream present. Seven different waste streams were identified. On December 2 and 6, 1999, START collected seven samples of individual drums excavated from site (drums 246, 102, 052, 112, 615, 775, 395). Each drum sample represented a distinct waste stream. Analytical results are presented in Attachment B, Table 4 with sample designations corresponding to individual drum numbers. Sample results indicate the presence of VOCs, SVOCs, metals, and PCBs. Methylene chloride was detected in six of the seven individual drum samples with a maximum concentration of 3,500 mg/kg detected in D-615. TCE was detected in five of the seven individual drum samples, with a maximum concentration of 17,000 mg/kg in D-112. Lead was detected in the seven individual drum samples with a maximum concentration of 3,110 mg/kg in D-102. PCBs were detected in the seven individual drum samples with a maximum concentration of 4,540 mg/kg of total PCBs detected in sample D-112. Six of the seven individual drum samples displayed a flashpoint below the regulatory level of 140 °F as defined by the 40 CFR 261.

On December 7, 1999, START collected two composite samples Density-01 and Density-02, from waste piles 1 and 2, respectively. Samples were collected to obtain the density of excavated material to determine the appropriate ratio of Enviroblend to waste material. Analytical results of Density-01 indicated that waste pile 1 had a density of 0.881 grams per centimeter cubed (g/m^3), and waste pile 2 had a density of 0.995 g/m^3 . A 3% blend was calculated to bind lead to pass TCLP. Treatment of waste piles commenced on December 7, 1999, and was completed on December 20, 1999. Waste piles 1,2,4,5 were treated with Enviroblend. Attachment B, Table 9 presents data regarding the treated waste piles, dates the piles were treated, piles sampled, and sample designations. Analytical results of blend piles sampled are presented in Attachment B, Table 10. Analytical results indicate that sample BP-05 contained TCE (240 mg/L), benzene (20 mg/L), and tetrachloroethene (PCE; 10J mg/L) above the regulatory limits of 0.5 mg/L, 0.5 mg/L, and 0.7 mg/L, respectively; other samples contained TCLP parameters within regulatory limits. On January 6, 2000, START collected sample BP-05A, which was a composite sample from treated pile 5. Analytical results indicate that sample BP-05A contained 0.180 mg/L of TCLP TCE, which is below the regulatory limit. Benzene and PCE concentrations were below detection limits.

On December 14, 1999, START collected groundwater samples GW-01 through GW-06. Samples were collected by excavating to groundwater with a trackhoe, then collecting the water in appropriate laboratory containers. Sample GW-01 was collected on the east side of the east pond, in an attempt to obtain a background sample. Sample GW-02 was collected in Area 3, at the northwest side of the east pond along the bank. Sample GW-03 was collected in an area where drums containing product were excavated in the east pond. Sample GW-04 was collected in the middle of the west

pond. Sample GW-05 was collected at the northern end of the west pond. Sample GW-06 was collected at the southwest corner of the west pond. Samples GW-02 through GW-05 contained product and an odor. Analytical results of groundwater sampling are presented in Attachment B, Table 11. Sample GW-01 contained detectable concentrations of metals and PCBs. Samples GW-02 and GW-03, collected in the east pond, contained metals, VOCs, SVOCs, and PCBs. Sample GW-02 contained 57,000 micrograms per liter ($\mu\text{g/L}$) of toluene, 5,900 $\mu\text{g/L}$ of methylene chloride, 5,515 $\mu\text{g/L}$ of naphthalene, 0.432 mg/L of lead, 358 $\mu\text{g/L}$ of total PCBs, and 3.8 mg/L of 2,4,5-trichlorophenoxyacetic acid (dilution required). Sample GW-03 contained 94,000 $\mu\text{g/L}$ of toluene, 32,000 $\mu\text{g/L}$ of xylene, 1,355 $\mu\text{g/L}$ of 2,4-dimethylphenol, 0.136 mg/L of lead, 370 $\mu\text{g/L}$ of total PCBs. Samples GW-04, GW-05 and GW-06, collected in the west pond, contained VOCs, SVOCs, and metals. Concentrations of VOCs, SVOCs, and PCBs in these samples were lower than samples GW-02 and GW-03. Sample GW-04 contained 8 $\mu\text{g/L}$ of methylene chloride, 3J $\mu\text{g/L}$ of bis (2-ethylhexyl) phthalate, 0.211 mg/L of lead, and 8.42 $\mu\text{g/L}$ of total PCBs. Sample GW-06 contained 9 $\mu\text{g/L}$ of methylene chloride, 7J $\mu\text{g/L}$ of bis (2-ethylhexyl) phthalate, and 0.385 mg/L of lead. On December 15, 1999, START collected sample Cinders-01 from a former drum staging area on top of the ridge on the west side of the east pond. Analytical results are presented in Attachment B, Table 3. The sample contained 10 mg/kg of arsenic and 60 mg/kg of lead.

On December 20, 1999, START collected samples from drums that contained labels or distinguishing marks. Sample D-200 was collected from a drum labeled Vestal. Sample D-Amchem was collected from a drum labeled Amchem Products Inc., Windsor, Ontario. Sample D-Dow was collected from a drum labeled Dow Chloroethene NU Superior Solvent, that appeared to contain paint waste. Analytical results of labeled drum samples are presented in Attachment B, Table 12. Analytical results indicate that the drums contained VOCs, SVOCs, metals, and had flashpoints below the regulatory level of 140°F. Sample D-Dow contained 120J mg/kg of TCE. The three samples contained xylene, with a maximum concentration of 5,800 mg/kg detected in sample D-Dow. The three samples contained naphthalene, with a maximum concentration of 3,110 mg/kg detected in sample D-Dow. Lead was detected in the three samples, with a maximum concentration of 18,400 mg/kg detected in sample D-Dow. PCBs were detected in the three samples with a maximum concentration of 5,042 mg/kg of total PCBs in sample D-Dow.

JANUARY 2000

By the end of the month, ER excavated approximately 1,450 drums and 9,935 cubic yards of material from the site. ER continued to excavate waste from Areas 1 and 4, and started to excavate waste from Areas 6 and 7. ER excavated approximately 737 drums and 2,560 cubic yards of material during the month. On January 13, 2000, ER investigated Area 5; however no waste material was located and excavation activities ceased.

Analytical results of blend pile samples indicated that the concentrations of RCRA-listed wastes fell below regulatory limits as defined by 40 CFR 261. The excavated

material was profiled as PCB-contaminated soil/debris. On January 5, 2000, ER began to remove wastes from site. A waste disposal summary is presented in Attachment B, Table 13. The PCB waste stream was shipped via rail car to the Safety-Kleen (Lone & Grassy Mountain), Inc. facility located in Waynoka, Oklahoma. During the course of the removal action, one hundred forty one rail cars, each containing approximately 90 tons of PCB waste, were shipped to the facility.

On January 18 and 19, 2000, START collected samples Area-04RoadA and Area-04RoadB. Sample Area-04RoadA was a composite sample collected from black, red, and white waste material excavated from the roadway in Area 4. Sample Area-04RoadB was collected from black waste excavated from the roadway in Area 4. Analytical results are presented in Attachment B, Table 14. Sample Area-04RoadA contained 25.9 mg/kg of total PCBs. Sample Area-04RoadB contained VOCs, metals, and SVOCs.

ER encountered a fibrous material in white waste approximately 3-feet below the ground surface along the west wall of the west pond (Area 4). On January 21, 2000, START collected samples A-4TA (from the north wall of the excavation) and A-4TB (from the south wall of the excavation) of the waste and fiber material. Analytical results of the samples indicated that sample A-4TA did not contain asbestos, while sample A-4TB contained 20-30% chrysotile.

On January 25, 2000, START collected two composite samples (A-4-P-1 and A-4-P-2) from waste pile 8. Waste pile 8 contained material excavated from area 4. Analytical results are presented in Attachment B, Table 15. Samples A-4-P-1 and A-4-P-2 are presented as WP-8-1 and WP-8-2, respectively. Analytical results indicate that the material excavated from area 4 contained PCBs at a concentration lower than 50 mg/kg. The remainder of the sample parameters, excluding the paint filter test, fell within regulatory limits. On February 18, 2000, START collected composite sample WP-08PF from waste pile 8 for a paint filter analysis. Sample WP-08PF passed the paint filter test. Subsequently, a low-level PCB waste stream was developed for waste pile 8. The low-level PCB waste was shipped via truck to the Milam Recycling and Disposal Facility located in East St. Louis, Illinois.

FEBRUARY 2000

All eight excavation areas were partially or fully investigated by the end of the month. Over 2,750 drums were excavated from the site by the end of February 2000. During the month, ER excavated material from Areas 6, 7, and 8. ER excavated approximately 1,017 drums and 3,040 cubic yards of waste during the month. START screened material excavated from Area 4 with several results showing PCB concentrations above 50 ppm. Selected amounts of the excavated material were staged for off-site disposal.

On February 7, 2000, START collected composite samples Waste pile-09-01 and Waste pile-09-02 from waste pile 9. Analytical results are located in Attachment B, Table 15. Samples Waste pile-09-01 and Waste pile-09-02 contained 332.0 and 218.1 mg/kg of total PCBs, respectively. The remaining sample parameters fell within

regulatory limits and waste pile 9 was added to the PCB waste stream. On February 7, 2000, START collected composite sample, Waste pile-08, from waste pile 8, which was analyzed for total VOCs, SVOCs, pesticides and target analyte list metals. The sample was collected to obtain data on parameters other than those analyzed through the TCLP method. Analytical results are presented in Attachment B, Table 6. Analytical results indicate that the sample contained VOCs, SVOCs, metals, and pesticides. The sample contained 40 µg/kg of acetone, 13,000 µg/kg of phenanthrene, 6,900 µg/kg of benzo(a)pyrene, 162 mg/kg of lead, 28.5 µg/kg of 4,4-dichlorodiphenyldichloroethylene (4,4-DDE), 16.6 µg/kg of dieldrin, and 34.7 µg/kg of 4,4-dichlorodiphenyldichloroethane (4,4-DDD). On February 23, 2000, START collected two composite samples, Waste pile-10-01 and Waste pile-10-2, from waste pile 10. Samples Waste pile-10-1 and Waste pile-10-2 contained 116.4 and 267.0 mg/kg of total PCBs, respectively. The remaining sample parameters fell within regulatory limits and waste pile 10 was added to the PCB waste stream.

MARCH 2000

ER completed excavation activities by the end of March 2000. A total of 3,271 drums and approximately 15,445 cubic yards of waste were excavated from the site. In March 2000, ER excavated 597 drums and 925 cubic yards of material from Area 6 and 657 drums and 620 cubic yards of waste from Area 8.

On March 1, 2000, START collected two composite samples from waste pile 11 (samples WP-11-1 and WP-11-2). Analytical results are presented in Attachment B, Table 15. Samples WP-11-1 and WP-11-2 contained 183.2 and 283.8 mg/kg of total PCBs, respectively. The remaining sample parameters fell within regulatory limits and waste pile 11 was added to the PCB waste stream.

On March 14, START collected composite samples WP-12-1 and WP-12-2 from waste pile 12. Analytical results are presented in Attachment B, Table 15. Samples WP-12-1 and WP-12-2 contained 34.0 and 34.3 mg/kg of total PCBs, respectively. The remaining sample parameters fell within regulatory limits and waste pile 12 was added to the low-level PCB waste stream. During the course of the removal action approximately 3,260 tons low-level PCB waste was removed from site.

APRIL 2000

On April 13, 2000, the U.S. EPA Fields Team mapped site features using a global positioning system. Maps generated by the team are presented in Attachment A. On April 5 and 6, 2000, ERRS removed surface soil, gravel, and the lining from Alton Southern property used to transfer and stage site wastes for disposal. The excavated soil, gravel, and liner was placed into rail cars for disposal or moved on site. On April 18 and 19, 2000, ERRS seeded and placed straw bales in the former excavation areas to provide vegetative cover and to reduce erosion.

On April 10, 2000, START collected seven composite surface soil samples (RS-01A through RS-07A) on areas impacted by the transfer of site wastes. Sample locations are

presented in Attachment A and sample results are presented in Attachment B, Table 7. On April 10, 2000, START sampled the railroad property mirroring the methodology of samples collected prior to waste transportation through the railroad property. Analytical results indicate that levels do not differ significantly from the original samples (RS-01 through RS-07) collected on December 21, 1999.

April 13 and 17, 2000, START collected 24 subsurface soil samples in former excavation areas to determine concentrations of PCBs that remain in soils. Samples were collected below cover material in areas where drums and/or bulk wastes were removed. A description of samples, sample depths, and sample material is presented in Attachment B, Table 16. Attachment A contains a map showing sample locations and a map showing removal areas in conjunction with sample locations. Analytical results are presented in Attachment B, Table 17. Samples collected in Areas 1 and 2, and samples A3-01 and A3-02 were collected from the bottom of the east pond. These samples, except for sample A2-01, contained concentrations of total PCBs greater than 50 mg/kg. A maximum of 330 mg/kg of total PCBs was detected in sample A1-01. Samples A3-03, A6-01, and A8-01 contained levels of PCBs greater than 50 mg/kg. Samples A6-01 and A8-01 were collected in borings that contained foreign material. Analytical results indicate that concentrations of PCBs in site soils exceed the removal action limit of 50 ppm.

On April 18 and 19, 2000, ER spread seed and placed straw bales and silt fencing on capped areas to prevent erosion. During the week of April 17, 2000, U.S. EPA, ER, EQM, and START demobilized from site. Due to lack of topsoil needed to completely cap the excavation areas, municipal waste is visible on the limited portions of the site. Due to limited resources, the site contains drums protruding from the ground and additional areas of contamination.

2. Treatment, disposal, or alternative technology approaches pursued

Approximately 13,772 tons of PCB contaminated soil and debris, 3,260 tons of low level PCB waste, and 3,271 drums were excavated and removed from site. 5,400 tons of the PCB-contaminated soil were treated on site with Enviroblend to bind leachable lead. The PCB waste was disposed at the Safety-Kleen (Lone & Grassy Mountain), Inc. facility located in Waynoka, Oklahoma, while the low-level PCB waste stream was disposed at the Milam Recycling and Disposal Facility located in East St. Louis, Illinois. A waste disposal summary is included in Attachment B, Table 13.

3. Public information and community relations activities

Throughout the removal action, OSC Turner met with various public officials and private citizens. OSC Turner attended several "town hall" type meetings in Cahokia to give updates in the removal action and answer questions. OSC Turner and other U.S. EPA representatives conducted interviews with various news media to assist with publications on site activities.

E. Resources Committed

Extramural Costs:

Total Cleanup Contractor (e.g, ERRS) Costs	\$2,100,000
START	\$66,780
TOTAL, EXTRAMURAL COSTS	\$2,166,780

Intramural Costs:

Direct Costs (Region, HQ, ERT)	\$51,000
Intramural Indirect Costs	\$0
TOTAL, INTRAMURAL COSTS	\$51,000

TOTAL SITE COST	<u>\$2,217,780</u>
Project Ceiling	\$2,400,000

Any indication of specific costs incurred at the site is only an approximation, subject to audit and final definization by U.S. EPA. The OSC Report is not meant to be a final reconciliation of costs associated with a particular site.

II. EFFECTIVENESS OF REMOVAL ACTIVITIES

A. Actions Taken by PRPs

During the course of the removal action, a consultant for Eagle Marine Industries, Inc. visited the site to discuss site activities with OSC Turner.

B. Actions by State and Local Agencies

Illinois EPA provided historical information on the site. Illinois EPA representatives spoke with OSC Turner regarding technical details of the removal activities.

C. Actions Taken by Federal Agencies and Special Teams

U.S. EPA provided monetary resources, overall response organization, and oversight during all removal activities conducted by ERRS. The United States Coast Guard Atlantic Strike Team provided oversight of activities on several occasions during the removal action. U.S. Fish and Wildlife Service, as a natural resource trustee, visited the site and spoke with OSC Turner.

D. Actions Taken by Contractors, Private Groups, and Volunteers

The U.S. EPA ERRS contractor, Environmental Quality Management provided the subcontractor, Environmental Restoration, who conducted the removal of waste materials at Site Q. Environmental Restoration excavated bulk waste, drums, and contaminated soil; staged waste; assisted with sampling; assisted with the organization of the response; backfilled excavation areas; and graded/seeded former excavation areas. Environmental Quality Management provided subcontractors to analyze samples and transport and dispose of site wastes. Environmental Restoration provided the personnel and equipment necessary to complete field operations.

U.S. EPA START contractor, E & E, provided continuous assistance in documenting on-site activities and costs incurred; conducted contractor oversight (both general and health and safety); completed air monitoring; conducted soil, product, and groundwater sampling; and completed necessary reports.

III. DIFFICULTIES ENCOUNTERED

A. Items That Affected the Response

Transportation: Rail cars provided a quick and efficient means of removing contaminated material off-site.

Amount of contamination: After the removal action was completed, levels of PCBs in site soils still exceed removal action limits.

B. Issues of Intergovernmental Coordination

Not applicable.

C. Difficulties Interpreting, Complying With, or Implementing Policies and Regulations

Not applicable.

IV. RECOMMENDATIONS FOR NEW POLICY OR REGULATIONS, AND CHANGES IN CURRENT REGULATIONS AND RESPONSE PLANS

A. Means to Prevent a Recurrence of the Discharge or Release

Routine audits: Audits should be conducted routinely for companies that are producers or users of large quantities of hazardous substances, and these companies should be required to dispose of wastes produced and materials used. Companies that fall into these categories could be required to carry and maintain liability insurance to pay for potential environmental damage or threats that result from operations.

B. Means to Improve Removal Activities

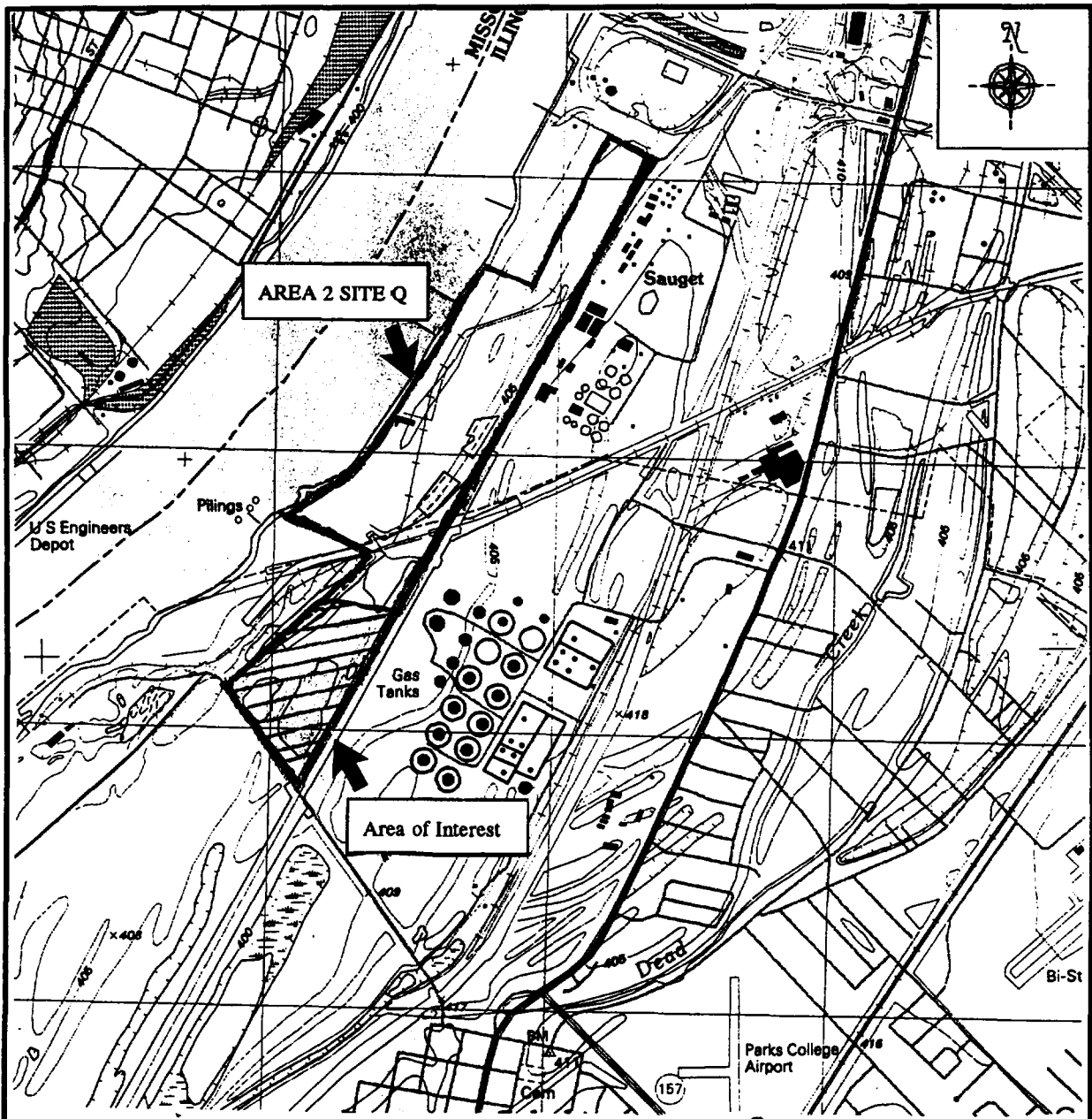
None.

C. Recommendations for New Policy or Regulations, and Changes in Current Regulations and Response Plans

None.

Attachment A

Figures



Quadrangle Location



Illinois



ecology and environment, inc.

**Superfund Technical Assessment and Response Team
Region 5**

501 W. DeYoung Center, Suite 3, Marion, Illinois 62959

TITLE	Site Location Map	FIGURE	1
MTS	Area 2 Site Q	SCALE	1:24,000
CITY	Cahokia	STATE	Illinois
SOURCE	U.S.G.S. 7.5 Minute Topographic Series, Cahokia Quadrangle, IL	TDD	S05-9909-015
		DATE	1998
		REVISED	N/A

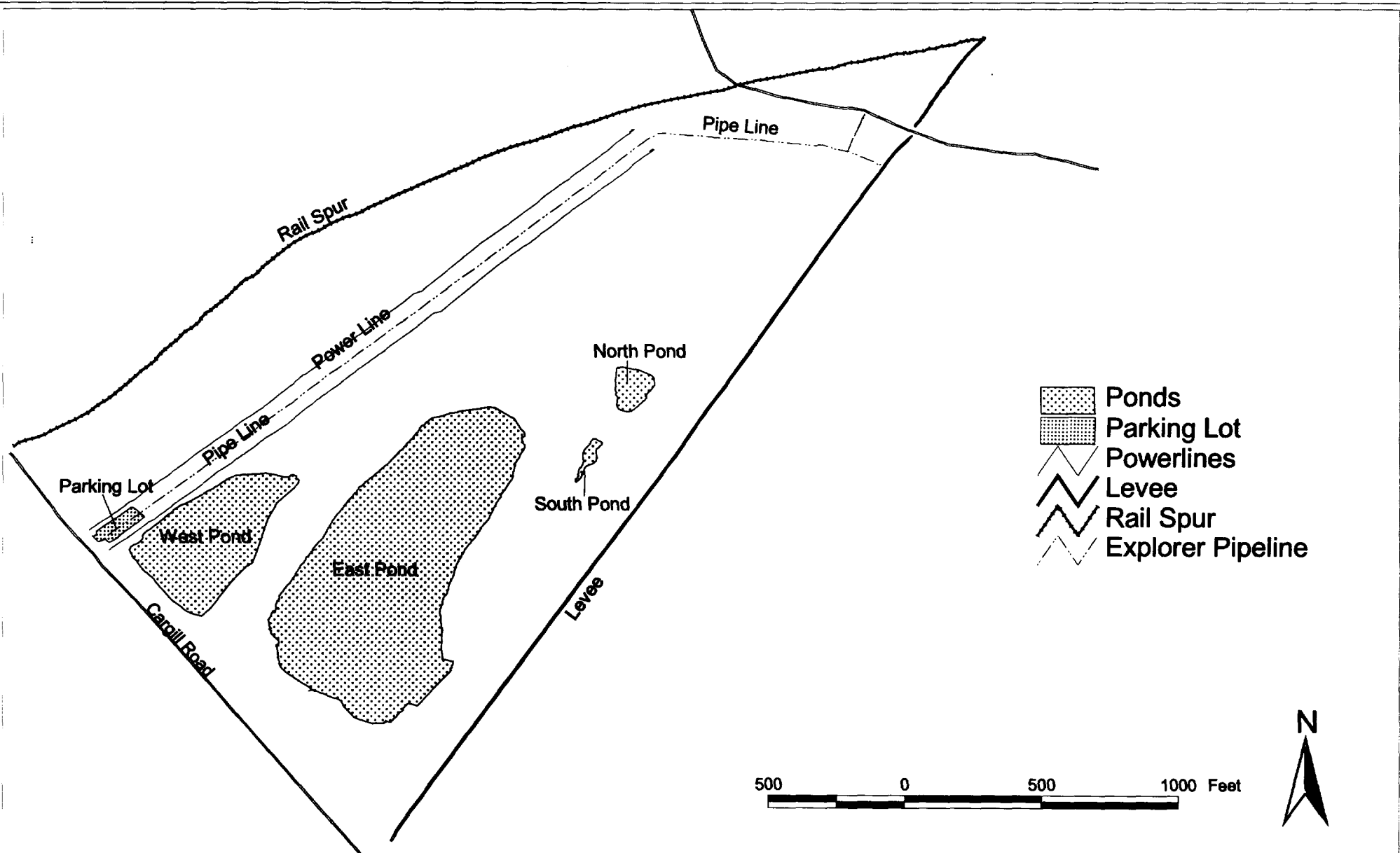
SDMS US EPA REGION V

COLOR-RESOLUTION - 2

IMAGERY INSERT FORM

The following page(s) of this document include color or resolution variations.
 Unless otherwise noted, these pages are available in monochrome. The original document is available for viewing at the Superfund Records Center.

SITE NAME	SAUGET AREA II
DOC ID #	158652
DESCRIPTION OF ITEM(S)	SITE Q - CAHOKIA, IL. MAPS
PRP	SAUGET AREA II
DOCUMENT VARIATION	<u> X </u> COLOR OR <u> </u> RESOLUTION
DATE OF ITEM(S)	5/24/00
NO. OF ITEMS	4
PHASE	ERR
OPERABLE UNITS	
PHASE (AR DOCUMENTS ONLY)	<u> </u> Remedial <u> </u> Removal <u> </u> Deletion Docket <u> </u> Original <u> </u> Update # <u> </u> Volume <u> </u> of <u> </u>
COMMENT(S)	



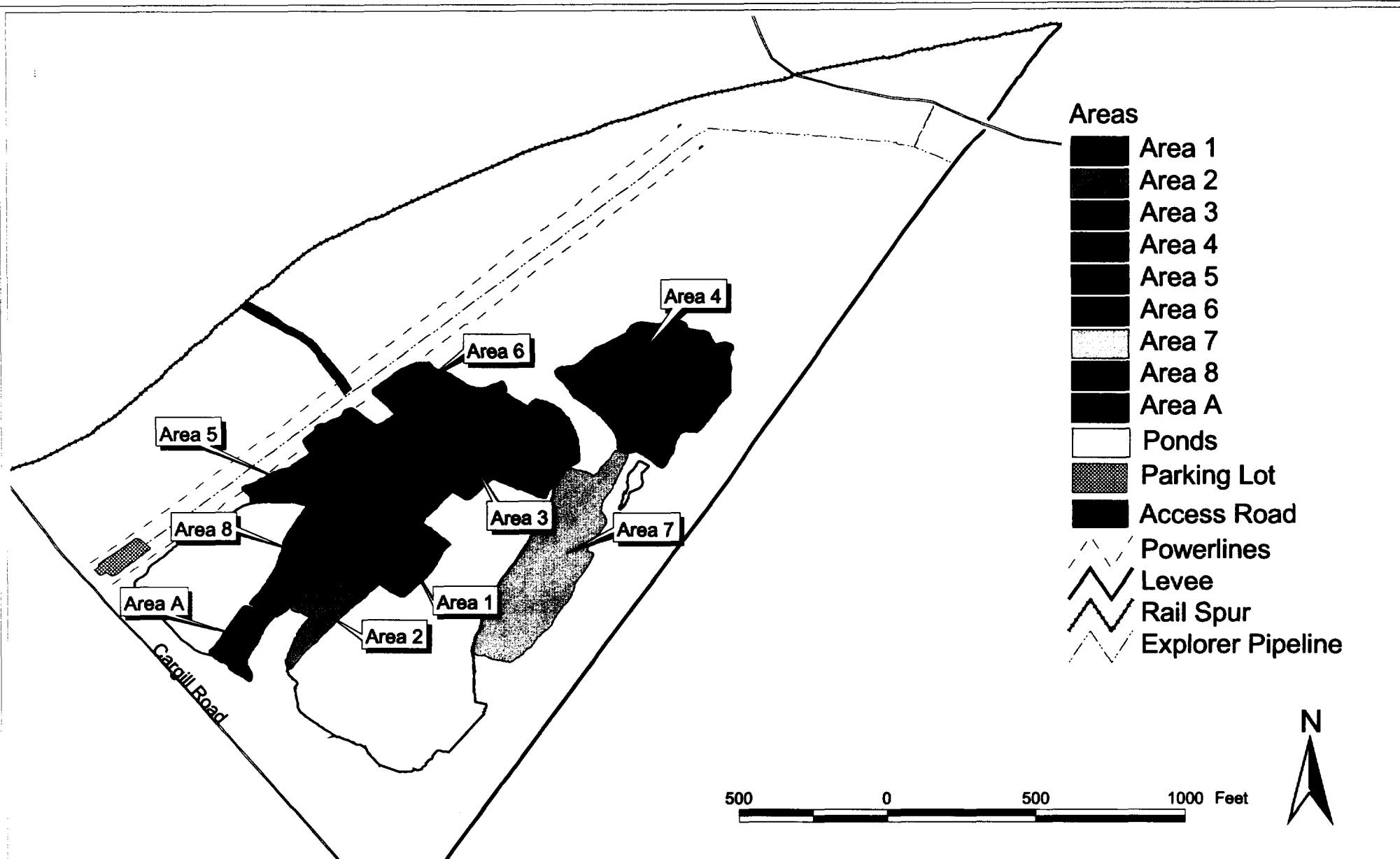
Site Features



Data collected by FIELDs team on 4/13/00
Map by: Terrance Patterson - 5/24/00

Site Q - Cahokia, IL



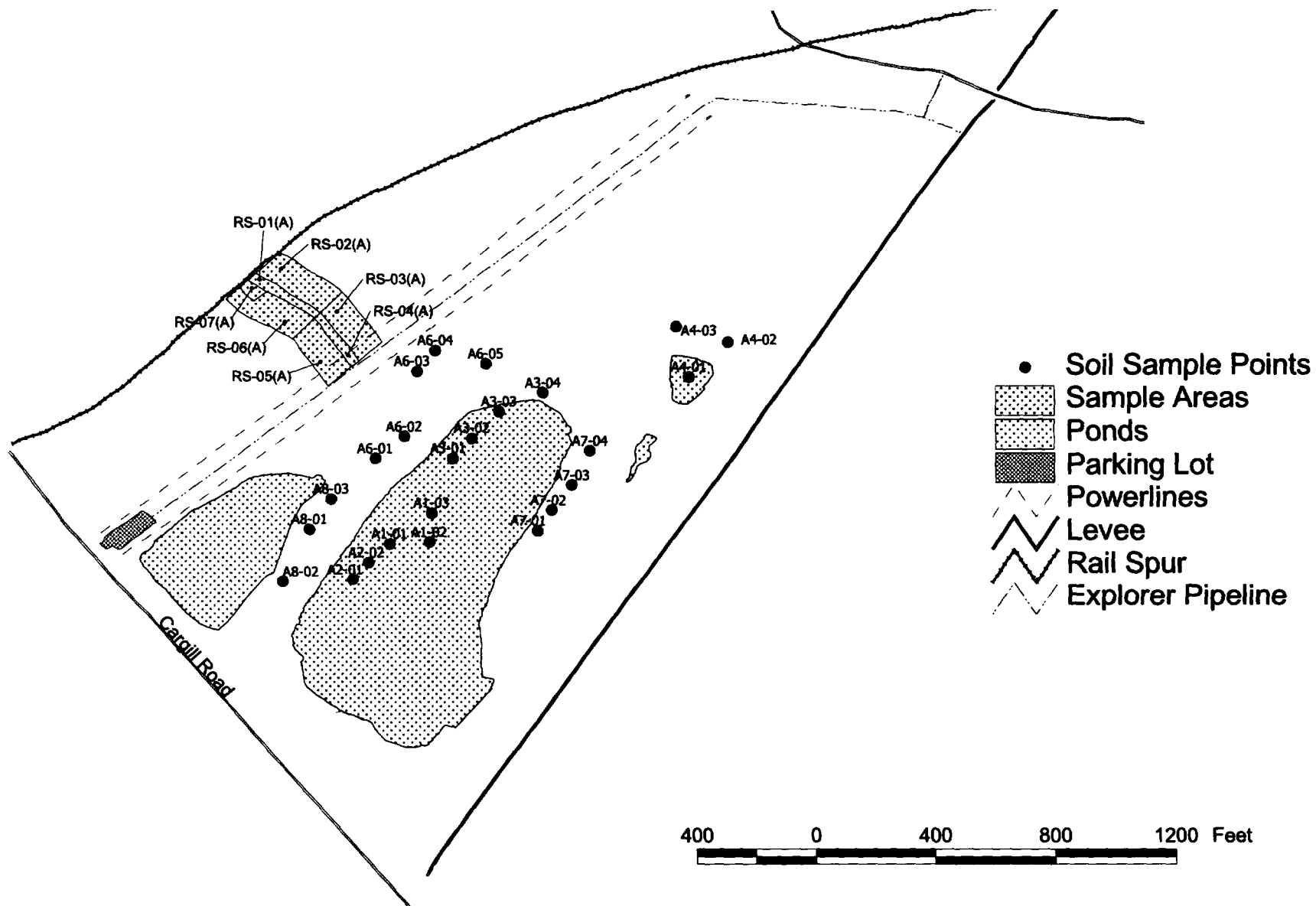


Removal Areas

Data collected by FIELDS team on 4/13/00
Map by: Terrance Patterson - 5/24/00

Site Q - Cahokia, IL



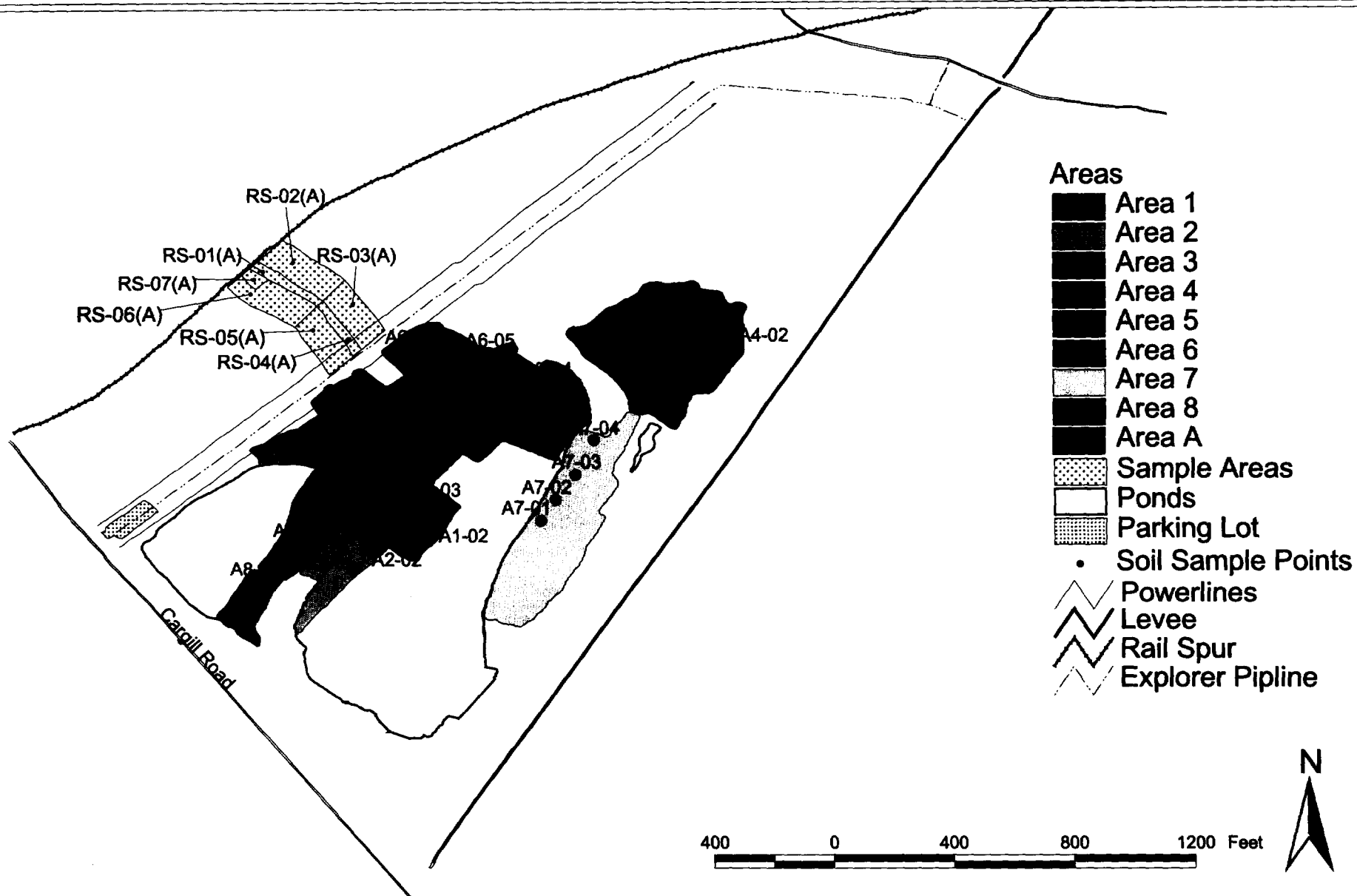


Sample Points

Data collected by FIELDS team on 4/13/00
Map by: Terrance Patterson - 5/24/00

Site Q - Cahokia, IL





Removal Areas and Sample Points

Data collected by FIELDS team on 4/13/00
Map by: Terrance Patterson - 5/24/00

Site Q - Cahokia, IL



Attachment B

Tables

<p align="center">Table 1</p> <p align="center">ORGANIZATION OF RESPONSE</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">OCTOBER 18, 1999 - APRIL 19, 2000</p>		
Agencies or Parties Involved	Contact	Description of Participation
U.S. EPA Region 5 8588 Rt. 148 Marion, Illinois 62959 (618) 997-0115	Kevin Turner	Federal OSC responsible for overall response oversight and control.
U.S. EPA Region 5 Enforcement Section 77 West Jackson Boulevard Chicago, Illinois 60604	William Messenger, Chief	Issued written Notice Letters and Request for Information Letters to potentially responsible parties.
U.S. EPA Region 5 Emergency Response Branch 77 West Jackson Boulevard Chicago, Illinois 60604	Rick Karl, Chief	Facilitated approval process for Action Memoranda.
U.S. EPA Region 5 Remedial Response Branch 77 West Jackson Boulevard Chicago, Illinois 60604	Michael McAteer	Federal Remedial Project Manager responsible for remedial actions associated with Site Q.
Illinois EPA 1001 North Grand Ave. East Springfield, Illinois, 62794 (217) 524-1658	Tom Krause Candy Morrin	Provided historical information on the site.
Ecology and Environment, Inc. Superfund Technical Assessment and Response Team 501 W. DeYoung Center, Suite 3 Marion, Illinois 62959 (618) 998-8010	Tracey Fitzgerald Paul Atkociunas	Provided U.S. EPA with technical assistance, administrative support, site documentation, and assisted in final report preparation.
Environmental Quality Management 1310 Kemper Meadow Drive Cincinnati, Ohio (513) 825-7500	John Mullane Mark Douglas Jacqueline Doan Randall Staehling Billie Kilgore	Procured subcontract work. Arranged for laboratory services and the disposal of site waste. Validated analytical data.
Environmental Restoration 16333 Westwoods Business Park Drive St. Louis, Missouri 63021 (636) 227-7477	James Davis, Response Manager	Provided site workers and site equipment. Assisted OSC Turner with the coordination of site activities.

Table 2

SAMPLE DESIGNATIONS AND ANALYSIS PERFORMED
 SITE Q
 CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
 OCTOBER 27, 1999 TO APRIL 17, 2000

Sample	Date	FP	pH	PF	CN	S	Total VOC	Total SVOC	Total METAL	Total PEST	TCLP VOC	TCLP SVOC	TCLP METAL	TCLP PEST	TCLP HERB	ACM	PCB
SS-01	10/27/99							X	X				X				X
SS-02	10/27/99							X	X				X				X
SS-03	10/27/99							X	X				X				X
SS-04	10/27/99							X	X				X				X
SS-05	10/27/99							X	X				X				X
SS-06	10/29/99							X	X				X				X
SB-01	10/27/99							X	X				X				X
SB-02	10/27/99							X	X				X				X
Drum-01	10/29/99						X	X	X				X				X
Drum-02	10/29/99						X	X	X				X				X
Pile-01	11/3/99						X	X	X				X				X
Pile-02	11/10/99	X	X	X	X	X					X	X	X	X	X		X
Drum-03	11/10/99	X	X	X	X	X					X	X	X	X	X		X
Pile-02A	11/18/99	X	X	X	X	X					X	X	X	X	X		X
Pile-03	11/18/99	X	X	X	X	X					X	X	X	X	X		X
Drum-04	11/18/99	X	X	X	X	X					X	X	X	X	X		X
AS-01*	11/19/99																
AS-02*	11/19/99																

Table 2 (Cont.)

SAMPLE DESIGNATIONS AND ANALYSIS PERFORMED
 SITE Q
 CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
 OCTOBER 27, 1999 TO APRIL 17, 2000

Sample	Date	FP	pH	PF	CN	S	Total VOC	Total SVOC	Total METAL	Total PEST	TCLP VOC	TCLP SVOC	TCLP METAL	TCLP PEST	TCLP HERB	ACM	PCB
AS-03*	11/19/99																
AS-04*	11/19/99																
AS-05*	11/20/99																
AS-06*	11/20/99																
AS-07*	11/20/99																
AS-08*	11/20/99																
D-246	12/2/99	X	X				X	X	X								X
D-102	12/2/99	X	X				X	X	X								X
D-052	12/2/99	X	X				X	X	X								X
D-112	12/2/99	X	X				X	X	X								X
D-615	12/6/99	X	X				X	X	X								X
D-775	12/6/99	X	X				X	X	X								X
D-395	12/6/99	X	X				X	X	X								X
Density-01**	12/7/99																
Density-02**	12/7/99																
BP-01	12/8/99										X		X				X
BP-02	12/8/99										X		X				X
BP-03	12/8/99										X		X				X

Table 2 (Cont.)

SAMPLE DESIGNATIONS AND ANALYSIS PERFORMED
 SITE Q
 CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
 OCTOBER 27, 1999 TO APRIL 17, 2000

Sample	Date	FP	pH	PF	CN	S	Total VOC	Total SVOC	Total METAL	Total PEST	TCLP VOC	TCLP SVOC	TCLP METAL	TCLP PEST	TCLP HERB	ACM	PCB
BP-04	12/8/99										X		X				X
BP-05	12/15/99										X		X				X
GW-01	12/14/99						X	X	X					X	X		X
GW-02	12/14/99						X	X	X					X	X		X
GW-03	12/14/99						X	X	X					X	X		X
GW-04	12/14/99						X	X	X					X	X		X
GW-05	12/14/99						X	X	X					X	X		X
GW-06	12/14/99						X	X	X					X	X		X
Cinders-01	12/15/99								X								
BP-08	12/16/99										X		X				X
BP-11	12/16/99										X		X				X
BP-14	12/17/99										X		X				X
BP-17	12/21/99										X		X				X
D-200	12/20/99	X	X				X	X	X								X
D-Dow	12/20/99	X	X				X	X	X								X
D-Anachem	12/20/99	X	X				X	X	X								X
RS-01	12/21/99								X								X
RS-02	12/21/99								X								X

Table 2 (Cont.)

SAMPLE DESIGNATIONS AND ANALYSIS PERFORMED
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
OCTOBER 27, 1999 TO APRIL 17, 2000

Sample	Date	FP	pH	PF	CN	S	Total VOC	Total SVOC	Total METAL	Total PEST	TCLP VOC	TCLP SVOC	TCLP METAL	TCLP PEST	TCLP HERB	ACM	PCB
RS-03	12/21/99								X								X
RS-04	12/21/99								X								X
RS-05	12/21/99								X								X
RS-06	12/21/99								X								X
RS-07	12/21/99								X								X
BP-05A	1/6/00										X						
Area-04 road A	1/19/00																X
Area-04 road B	1/19/00						X	X	X								
A-4TA	1/21/00															X	
A-4TB	1/21/00															X	
A-4-P-1	1/25/00	X	X	X	X	X					X	X	X	X	X		X
A-4-P-2	1/25/00	X	X	X	X	X					X	X	X	X	X		X
Waste pile -09-01	2/7/00	X	X	X	X	X					X	X	X	X	X		X
Waste pile -09-02	2/7/00	X	X	X	X	X					X	X	X	X	X		X
Waste pile-08	2/07/00						X	X	X	X							
WP-08PF	2/18/00		X														
Waste pile-10-01	2/23/00	X	X	X	X	X					X	X	X	X	X		X
Waste pile-10-02	2/23/00	X	X	X	X	X					X	X	X	X	X		X

Table 2 (Cont.)

SAMPLE DESIGNATIONS AND ANALYSIS PERFORMED
 SITE Q
 CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
 OCTOBER 27, 1999 TO APRIL 17, 2000

Sample	Date	FP	pH	PF	CN	S	Total VOC	Total SVOC	Total METAL	Total PEST	TCLP VOC	TCLP SVOC	TCLP METAL	TCLP PEST	TCLP HERB	ACM	PCB
WP-11-1	3/1/00	X	X	X	X	X					X	X	X	X	X		X
WP-11-2	3/1/00	X	X	X	X	X					X	X	X	X	X		X
WP-12-1	3/14/00	X	X	X	X	X					X	X	X	X	X		X
WP-12-2	3/14/00	X	X	X	X	X					X	X	X	X	X		X
RS-01A	4/10/00								X								X
RS-02A	4/10/00								X								X
RS-03A	4/10/00								X								X
RS-04A	4/10/00								X								X
RS-05A	4/10/00								X								X
RS-06A	4/10/00								X								X
RS-07A	4/10/00								X								X
A1-01	4/13/00																X
A1-02	4/13/00																X
A1-03	4/13/00																X
A2-01	4/13/00																X
A2-02	4/13/00																X
A3-01	4/13/00																X
A3-02	4/13/00																X

Table 2 (Cont.)

SAMPLE DESIGNATIONS AND ANALYSIS PERFORMED
 SITE Q
 CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
 OCTOBER 27, 1999 TO APRIL 17, 2000

Sample	Date	FP	pH	PF	CN	S	Total VOC	Total SVOC	Total METAL	Total PEST	TCLP VOC	TCLP SVOC	TCLP METAL	TCLP PEST	TCLP HERB	ACM	PCB
A3-03	4/13/00																X
A3-04	4/13/00																X
A4-01	4/13/00																X
A4-02	4/13/00																X
A4-03	4/13/00																X
A6-01	4/13/00																X
A6-02	4/13/00																X
A6-03	4/13/00																X
A6-04	4/13/00																X
A6-05	4/13/00																X
A7-01	4/17/00																X
A7-02	4/17/00																X
A7-03	4/17/00																X
A7-04	4/17/00																X
A8-01	4/17/00																X
A8-02	4/17/00																X
A8-03	4/17/00																X

Table 2 (Cont.)

<u>Key :</u>	FP	=	Flash point.
	PF	=	Paint filter test.
	CN	=	Reactive cyanide.
	S	=	Reactive sulfide.
	VOC	=	Volatile organic compounds.
	SVOC	=	Semivolatile organic compounds.
	PEST	=	Pesticides.
	TCLP	=	Toxicity characteristic leaching procedure.
	HERB	=	Herbicides.
	PCB	=	Polychlorinated biphenyls.
	ACM	=	Asbestos-containing material.
	X	=	Sample collected.
	*	=	Samples AS-01 through AS-08 were air samples analyzed for lead.
	**	=	Samples Density-01 and Density-02 were soil samples analyzed for density.

Source: Site logbooks.

Table 3 SOIL SAMPLE ANALYTICAL RESULTS SITE Q CAHOKIA, ST. CLAIR COUNTY, ILLINOIS OCTOBER 27, 29 AND DECEMBER 15, 1999									
Parameter	Sample Designation								
	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SB-01	SB-02	Cinders-01
Target Analyte List Metals (mg/kg)									
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	7	8.58	9.13	4.12	4.59	6.37	12.8	19.9	10.5
Beryllium	0.421	0.422	0.58	0.371	0.591	0.395	0.379	0.642	2.03
Cadmium	1.25	4.76	36.8	1.28	1.02	12.6	16.2	18.9	6.29
Chromium	17.3	2.2	30.4	12.2	15.4	20.1	53.8	84.6	12.4
Copper	45	154	755	56.5	30.9	128	2,300	2,640	73.6
Lead	118	399	656	61.9	38.7	346	1,190	2,880	60.0
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	24	32.3	54.5	16	16.7	22.2	82.1	105	54.4
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	5.89
Silver	ND	ND	5.87	ND	ND	1.47	ND	14.3	ND
Thallium	1.23	3.81	1.33	0.659	0.919	2.05	ND	5.86	0.80
Zinc	268	708	1,700	233	172	365	1,990	1,860	1,060
TCLP Metals (mg/L)									
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	NA
Barium	ND	ND	ND	ND	ND	ND	ND	ND	NA
Cadmium	0.018	0.051	0.572	0.016	ND	0.090	0.101	0.250	NA
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	NA
Lead	0.924	0.979	0.250	0.039	ND	ND	2.72	7.15	NA
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	NA
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	NA
Silver	ND	ND	ND	ND	ND	ND	ND	ND	NA
Total Semivolatile Organic Compounds (mg/kg)									
Naphthalene	ND	ND	ND	ND	ND	ND	4.3	ND	NA
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	3.3	ND	NA

<p align="center">Table 3 (Cont.)</p> <p align="center">SOIL SAMPLE ANALYTICAL RESULTS</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">OCTOBER 27, 29 AND DECEMBER 15, 1999</p>									
Parameter	Sample Designation								
	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SB-01	SB-02	Cinders-01
Total Semivolatile Organic Compounds (mg/kg) (Cont.)									
Fluoranthene	ND	0.92	ND	ND	ND	ND	569	ND	NA
Pyrene	ND	0.87	ND	ND	ND	ND	593	ND	NA
Benzo(a)anthracene	ND	0.74	ND	ND	ND	ND	270	ND	NA
Chrysene	ND	0.78	ND	ND	ND	ND	266	ND	NA
Benzo(b)fluoranthene	ND	0.60	ND	ND	ND	ND	549	1.4	NA
Benzo(k)fluoranthene	ND	0.59	ND	ND	ND	ND	535	1.4	NA
Benzo(a)pyrene	ND	0.54	ND	ND	ND	ND	813	1.8	NA
Phenanthrene	ND	ND	ND	ND	ND	ND	427	ND	NA
Anthracene	ND	ND	ND	ND	ND	ND	151	ND	NA
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	174	ND	NA
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	507	0.76	NA
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	260	ND	NA
PCBs (µg/kg)									
Aroclor 1254	105	200	434	285	246	491	2,050	432	NA
Aroclor 1260	111	145	230	225	293	297	1,100	361	NA
Total PCBs	216	345	664	510	539	788	3,150	793	NA

Key: mg/kg = Milligrams per kilogram.
 mg/L = Milligrams per liter.
 µg/kg = Micrograms per kilogram.
 ND = Not detected.
 NA = Not analyzed.
 TCLP = Toxicity characteristic leaching procedure.
 PCBs = Polychlorinated biphenyls.

Source: American Technical and Analytical Services Inc., Maryland Heights, Missouri. Analysis provided through Environmental Quality Management.

Table 4

**DRUM SAMPLE ANALYTICAL RESULTS
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
OCTOBER 29, 1999 TO DECEMBER 6, 1999**

Parameter	Sample Designation										
	Drum-01	Drum-02	Drum-03	Drum-04	D-246	D-102	D-052	D-112	D-615	D-775	D-395
Flash Point (°F)	NA	NA	190	120	80	111	131	90.1	60.9	> 200	126
pH (standard units)	NA	NA	6.4	7.6	5.0	5.0	4.0	6.0	3.4	6.0	6.0
Paint Filter Test	NA	NA	pass	pass	NA	NA	NA	NA	NA	NA	NA
Reactive Cyanide (mg/kg)	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Reactive Sulfide (mg/kg)	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (mg/kg)											
1,2-Dichloroethene	160	85	NA	NA	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	1,660	710	NA	NA	7,200	3,800	170	17,200	58,000	3.1	1,450
Methylene chloride	19 J,B	26 J,B	NA	NA	ND	42 J	49	1,900	3,500	0.180 J	900 J
1,1-Dichloroethane	29 J	ND	NA	NA	ND	ND	4.5 J	ND	ND	ND	ND
cis-1,2-Dichloroethene	160	85	NA	NA	ND	ND	ND	ND	ND	0.190 J	ND
1,1,1-Trichloroethane	140	17 J	NA	NA	ND	130	20 J	ND	ND	ND	ND
Benzene	ND	ND	NA	NA	ND	ND	6.2 J	ND	ND	ND	ND
Trichloroethene	160	ND	NA	NA	ND	240	ND	17,000	1,100 J	0.200 J	460 J
Bromodichloromethane	ND	ND	NA	NA	ND	ND	ND	ND	ND	1.00	ND
4-Methyl-2-pentanone	33 J	ND	NA	NA	ND	230	61	1,800 J	ND	ND	ND
1,2,3-Trichlorobenzene	ND	30 J	NA	NA	ND	ND	ND	ND	ND	ND	ND
Toluene	1,130	880	NA	NA	2,400	3,000	450	23,000	10,000	4.5	3,200

Table 4 (Cont.)											
DRUM SAMPLE ANALYTICAL RESULTS SITE Q CAHOKIA, ST. CLAIR COUNTY, ILLINOIS OCTOBER 29, 1999 TO DECEMBER 6, 1999											
Parameter	Sample Designation										
	Drum-01	Drum-02	Drum-03	Drum-04	D-246	D-102	D-052	D-112	D-615	D-775	D-395
Volatile Organic Compounds (mg/kg) (Cont.)											
Tetrachloroethene	21 J	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	180	85	NA	NA	520 J	470	100	2,200	40,000	0.510	220 J
Isopropylbenzene	120	ND	NA	NA	1,400	88 J	11 J	550 J	700 J	ND	ND
n-Propylbenzene	410	45 J	NA	NA	7,100	280	29	2,000	680 J	0.130 J	ND
1,3,5-Trimethylbenzene	950	100	NA	NA	14,000	510	52	2,800	940 J	0.420 J	ND
1,2,4-Trimethylbenzene	2,700	380	NA	NA	40,000	1,600	170	10,000	2,100 J	1.20	390 J
sec-Butylbenzene	ND	ND	NA	NA	ND	55 J	5.5 J	ND	ND	ND	ND
p-Isopropyltoluene	88	ND	NA	NA	580 J	130	15 J	ND	ND	ND	ND
n-Butylbenzene	ND	64	NA	NA	ND	ND	ND	760 J	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	NA	NA	230 J	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	33 J	140	NA	NA	ND	ND	ND	ND	ND	ND	ND
Naphthalene	630	300	NA	NA	460 J,B	1,700 B	96 B	6,500 B	900 J,B	1.0 B	35,000 B
TCLP Volatile Organic Compounds (mg/L)											
Trichloroethene	NA	NA	1.4	1.2	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	0.180	0.22 J	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	0.018 J	ND	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	0.02 J	ND	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	0.6	10	NA	NA	NA	NA	NA	NA	NA

Table 4 (Cont.) DRUM SAMPLE ANALYTICAL RESULTS SITE Q CAHOKIA, ST. CLAIR COUNTY, ILLINOIS OCTOBER 29, 1999 TO DECEMBER 6, 1999											
Parameter	Sample Designation										
	Drum-01	Drum-02	Drum-03	Drum-04	D-246	D-102	D-052	D-112	D-615	D-775	D-395
Semivolatile Organic Compounds (mg/kg)											
Phenol	ND	17 J	NA	NA	66,300	810	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	15 J	NA	NA	30 J	ND	ND	ND	ND	ND	ND
Benzyl alcohol	ND	ND	NA	NA	ND	ND	ND	ND	24.0 J	ND	ND
1-2-Dichlorobenzene	ND	10 J	NA	NA	180 J	ND	ND	ND	ND	ND	ND
2-Methylphenol	24 J	34 J	NA	NA	18,600	590	ND	1,100 J	2.5 J	ND	ND
3,4-Methylphenol	46 J	64 J	NA	NA	46,200	1,400	ND	1,800 J	ND	ND	ND
4-Methylphenol	ND	ND	NA	NA	ND	ND	ND	ND	7.1 J	ND	ND
Isophorone	5.5 J	ND	NA	NA	ND	ND	ND	ND	8.1 J	ND	ND
2,4-Dimethylphenol	88	ND	NA	NA	21,400	390 J	ND	2,400	ND	ND	90 J
2,4-Dichlorophenol	ND	ND	NA	NA	130 J	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	12 J	350	NA	NA	300 J	69 J	ND	ND	ND	ND	ND
Naphthalene	200 B	500 B	NA	NA	540	2,400	85 J	5,700	34.0 J	8.2 J	90,000
2-Methylnaphthalene	37 J	35 J	NA	NA	100 J	130 J	100 J	270 J	ND	ND	160 J
2,4,6-Trichlorophenol	ND	ND	NA	NA	34 J	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ND	30 J	NA	NA	ND	180 J	ND	ND	ND	ND	ND
Butylbenzylphthalate	13 J	150	NA	NA	ND	120 J	ND	220 J	ND	ND	ND
Di-n-octylphthalate	ND	ND	NA	NA	ND	ND	ND	ND	ND	2.5 J	ND
bis(2-Ethylhexyl)phthalate	120 B	850 B	NA	NA	240 J	580	ND	2,300	9.3 J	ND	120 J

Table 4 (Cont.) DRUM SAMPLE ANALYTICAL RESULTS SITE Q CAHOKIA, ST. CLAIR COUNTY, ILLINOIS OCTOBER 29, 1999 TO DECEMBER 6, 1999											
Parameter	Sample Designation										
	Drum-01	Drum-02	Drum-03	Drum-04	D-246	D-102	D-052	D-112	D-615	D-775	D-395
TCLP Semivolatile Organic Compounds (mg/L)											
o-Cresol	NA	NA	1.9	4.04	NA	NA	NA	NA	NA	NA	NA
m/p-Cresol	NA	NA	2.4	5.03	NA	NA	NA	NA	NA	NA	NA
Total cresols	NA	NA	4.3	9.07	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	0.007 J	ND	NA	NA	NA	NA	NA	NA	NA
Target Analyte List Metals (mg/kg)											
Antimony	ND	2.84	NA	NA	15.4	60.4	ND	ND	ND	ND	ND
Arsenic	138	15.6	NA	NA	3.77	1.77	ND	ND	6.2	1.78	ND
Beryllium	0.480	0.408	NA	NA	ND	ND	ND	ND	0.930	ND	ND
Cadmium	37	261	NA	NA	170	651	ND	1.02	ND	1.34	ND
Chromium	330	975	NA	NA	827	7,400	5.68	616	11.2	28.9	3.39
Copper	119	314	NA	NA	189	57.4	ND	8.47	4.15	32.7	ND
Lead	395	3,740	NA	NA	1,030	3,110	290	248	17.3	200	0.550
Nickel	52.2	156	NA	NA	403	16.2	1.29	4.28	3.99	11.0	ND
Selenium	ND	62.9	NA	NA	45.6	173	ND	ND	ND	ND	ND
Silver	ND	14.9	NA	NA	2.13	ND	ND	ND	ND	ND	ND
Thallium	10.6	2.01	NA	NA	ND	ND	ND	ND	ND	ND	ND
Zinc	1,670	2,000	NA	NA	1,050	8,870	39.7	207	97.8	125	ND
Mercury	ND	5.84	NA	NA	ND	0.417	ND	ND	ND	ND	ND

Table 4 (Cont.) DRUM SAMPLE ANALYTICAL RESULTS SITE Q CAHOKIA, ST. CLAIR COUNTY, ILLINOIS OCTOBER 29, 1999 TO DECEMBER 6, 1999											
Parameter	Sample Designation										
	Drum-01	Drum-02	Drum-03	Drum-04	D-246	D-102	D-052	D-112	D-615	D-775	D-395
TCLP Metals (mg/L)											
Barium	NA	NA	ND	1.36	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	0.197	0.205	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	0.055	0.207	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	387	5.19	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)											
Aroclor 1248	ND	ND	257	ND	ND	1,720	17.7	1,670	1,410	ND	ND
Aroclor 1254	408	830	ND	2,780	692	ND	ND	2,870	778	0.728	379
Aroclor 1260	197	1,490	987	ND	659	988	5.27	ND	ND	0.286	196
Total Aroclors	605	2,320	1,244	2,780	1,351	2,708	22.97	4,540	2,188	1.014	575
TCLP Pesticides (mg/L)	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
TCLP Herbicides (mg/L)	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA

Key: mg/kg = Milligrams per kilogram.

mg/L = Milligrams per liter.

ND = Not detected.

NA = Not analyzed.

TCLP = Toxicity characteristic leaching procedure.

PCBs = Polychlorinated biphenyls.

µg/kg = Micrograms per kilogram.

°F = Degrees Fahrenheit.

J = Estimated concentration.

B = Analyte detected in method blank possibly below the reporting limit.

> = Greater than.

Source: American Technical and Analytical Services Inc., Maryland Heights, Missouri. Analysis provided through Environmental Quality Management.

<p style="text-align: center;">Table 5</p> <p style="text-align: center;">WASTE PILE INFORMATION</p> <p style="text-align: center;">SITE Q</p> <p style="text-align: center;">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p>				
Waste Pile	Area	Treated* (Yes or No)	Waste Stream	Date(s) Shipped
1	1	Yes	PCB	1/07/00 to 1/15/00
2	1,2	Yes	PCB	1/16/00 to 1/20/00
3	3	No	PCB	1/28/00 to 1/31/00, 3/27/00
4	3	Yes	PCB	1/06/00
5	3	Yes	PCB	1/05/00
6	2	No	PCB	1/19/00
7A/9	1	No	PCB	Combined with waste pile 9 on 1/27/00
7B/9	6	No	PCB	Combined with waste pile 9 on 1/27/00
8	4	No	Low-level PCB	3/20/00 to 3/22/00
9	1,6, and 7	No	PCB	3/27/00 to 3/28/00
10	7	No	PCB	3/28/00 to 3/30/00
11	6 and 8	No	PCB	3/31/00 to 4/05/00
12	6 and 8	No	Low-level PCB	3/22/00 to 4/04/00

* Note: Refers to waste piles treated with Enviroblend to bind leachable lead.

<p align="center">Table 6</p> <p align="center">WASTE PILE SAMPLE ANALYTICAL RESULTS</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">OCTOBER 29, 1999 TO FEBRUARY 7, 2000</p>					
Parameter	Sample Designation				
	Pile-01	Pile-02	Pile-02A	Pile-03	Waste pile-08
Flash Point (°F)	NA	> 200	122	138	NA
pH (standard units)	NA	7.7	7.2	7.8	NA
Paint Filter Test	NA	Pass	Pass	Pass	NA
Reactive Cyanide (mg/kg)	NA	ND	ND	ND	NA
Reactive Sulfide (mg/kg)	NA	ND	7.2	ND	NA
Volatile Organic Compounds (µg/kg)					
Xylene (total)	296	NA	NA	NA	5 J
Methylene chloride	ND	NA	NA	NA	19 B
Acetone	ND	NA	NA	NA	40
Trichloroethene	22 J	NA	NA	NA	ND
Toluene	220	NA	NA	NA	5 J
Ethylbenzene	28 J	NA	NA	NA	1 J
n-propylbenzene	30 J	NA	NA	NA	ND
1,3,5-Trimethylbenzene	61	NA	NA	NA	ND
1,2,4-Trimethylbenzene	230	NA	NA	NA	ND
p-Isopropyltoluene	ND	NA	NA	NA	5 J
n-Butylbenzene	32 J	NA	NA	NA	ND
1,4-Dichlorobenzene	ND	NA	NA	NA	7
1,2,4-Trichlorobenzene	18 J	NA	NA	NA	ND
Naphthalene	98 B	NA	NA	NA	9 B
TCLP Volatile Organic Compounds (mg/L)					
Trichloroethene	NA	0.620	0.52	0.020 J	NA
Benzene	NA	0.080	ND	ND	NA
Tetrachloroethene	NA	0.022 J	ND	0.012 J	NA
Chlorobenzene	NA	0.026	ND	ND	NA

<p align="center">Table 6 (Cont.)</p> <p align="center">WASTE PILE SAMPLE ANALYTICAL RESULTS</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">OCTOBER 29, 1999 TO FEBRUARY 7, 2000</p>					
Parameter	Sample Designation				
	Pile-01	Pile-02	Pile-02A	Pile-03	Waste pile-08
Semivolatile Organic Compounds (µg/kg)					
Phenol	8,100 B	NA	NA	NA	1,200 J
bis(2-Chloroethyl)ether	ND	NA	NA	NA	14,000
1,3-Dichlorobenzene	200 J	NA	NA	NA	ND
1,4-Dichlorobenzene	1,200 J	NA	NA	NA	980 J
1-2-Dichlorobenzene	2,400	NA	NA	NA	ND
2-Methylphenol	14,000	NA	NA	NA	ND
Benzoic acid	ND	NA	NA	NA	2,800 J,B
3,4-Dimethylphenol	45,000	NA	NA	NA	ND
Isophorone	6,600	NA	NA	NA	ND
2,4-Dimethylphenol	34,000	NA	NA	NA	ND
1,2,4-Trichlorobenzene	36,000	NA	NA	NA	ND
Naphthalene	180,000 B	NA	NA	NA	1,800 J
1-Chloroaniline	ND	NA	NA	NA	2,000 J
2-Methylnaphthalene	30,000	NA	NA	NA	1,400 J
Acenaphthene	ND	NA	NA	NA	1,800 J
4-Nitrophenol	ND	NA	NA	NA	2,000 J
Dibenzofuran	ND	NA	NA	NA	1,200 J
Diethylphthalate	210 J	NA	NA	NA	ND
Fluorene	240 J	NA	NA	NA	1,500 J
4-Nitroaniline	ND	NA	NA	NA	1,500 J
N-Nitrosodiphenylamine	ND	NA	NA	NA	1,110 J
Phenanthrene	520 J	NA	NA	NA	13,000
Antracene	ND	NA	NA	NA	2,300 J
Di-n-butylphthalate	2,900	NA	NA	NA	ND
Fluoranthene	220 J	NA	NA	NA	10,000

<p align="center">Table 6 (Cont.)</p> <p align="center">WASTE PILE SAMPLE ANALYTICAL RESULTS</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">OCTOBER 29, 1999 TO FEBRUARY 7, 2000</p>					
Parameter	Sample Designation				
	Pile-01	Pile-02	Pile-02A	Pile-03	Waste pile-08
Semivolatile Organic Compounds (µg/kg) (Cont.)					
Pyrene	290 J	NA	NA	NA	16,000
Butylbenzylphthalate	13,000	NA	NA	NA	ND
Chrysene	180 J	NA	NA	NA	ND
Di-n-octylphthalate	450 J,B	NA	NA	NA	ND
bis(2-Eethylhexyl)phthalate	120,000	NA	NA	NA	6,800 J
Benzo(a)anthracene	ND	NA	NA	NA	5,800 J
Chrysene	ND	NA	NA	NA	8,200
Di-n-octylphthalate	ND	NA	NA	NA	2,600 J,B
Benzo(b)fluoranthene	ND	NA	NA	NA	6,000 J
Benzo(k)fluoranthene	ND	NA	NA	NA	5,800 J
Benzo(a)pyrene	ND	NA	NA	NA	6,900
Dibenzo(a,h)anthracene	ND	NA	NA	NA	1,400 J
Indeno(1,2,3-cd)pyrene	ND	NA	NA	NA	4,000 J
Benzo(g,h,i)perylene	ND	NA	NA	NA	2,000 J
TCLP Semivolatile Organic Compounds (mg/L)					
o-Cresol	NA	0.490	0.742	0.613	NA
m/p-Cresol	NA	0.770	0.599	1.11	NA
Total cresols	NA	1.26	1.34	1.73	NA
1,4-Dichlorobenzene	NA	0.01J	ND	ND	NA
Pyridine	NA	ND	ND	0.005 J	NA
Target Analyte List Metals (mg/kg)					
Arsenic	8.99	NA	NA	NA	9.32
Beryllium	0.237	NA	NA	NA	0.288
Cadmium	65.1	NA	NA	NA	3.29
Chromium	384	NA	NA	NA	141

<p align="center">Table 6 (Cont.)</p> <p align="center">WASTE PILE SAMPLE ANALYTICAL RESULTS</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">OCTOBER 29, 1999 TO FEBRUARY 7, 2000</p>					
Parameter	Sample Designation				
	Pile-01	Pile-02	Pile-02A	Pile-03	Waste pile-08
Target Analyte List Metals (mg/kg) (Cont.)					
Copper	103	NA	NA	NA	151
Lead	764	NA	NA	NA	162
Nickel	29.1	NA	NA	NA	141
Selenium	14.6	NA	NA	NA	ND
Silver	1.24	NA	NA	NA	ND
Thallium	1.83	NA	NA	NA	ND
Zinc	668	NA	NA	NA	649
Mercury	0.521	NA	NA	NA	0.522
TCLP Metals (mg/L)					
Barium	1.2	1.53	1.25	1.17	NA
Cadmium	0.23	0.331	0.3	0.231	NA
Chromium	0.013	0.04	0.031	0.074	NA
Lead	3.7	14.8	8.69	1.05	NA
PCBs (mg/kg)					
Aroclor 1248	130	116	113	83.3	NA
Aroclor 1260	207	166	254	21.6	NA
Total Aroclors	337	282	367	104.9	NA
Pesticides (μg/kg)					
4,4-DDE	NA	NA	NA	NA	28.5
Dieldrin	NA	NA	NA	NA	16.6
4,4-DDD	NA	NA	NA	NA	34.7
TCLP Pesticides (mg/L)					
Heptachlor	NA	0.0008 J	ND	ND	NA
TCLP Herbicides (mg/L)	NA	ND	ND	ND	NA

Table 6 (Cont.)

<u>Key:</u>	mg/kg	=	Milligrams per kilogram.
	mg/L	=	Milligrams per liter.
	ND	=	Not detected.
	NA	=	Not analyzed.
	TCLP	=	Toxicity characteristic leaching procedure.
	PCBs	=	Polychlorinated biphenyls.
	μg/kg	=	Micrograms per kilogram.
	°F	=	Degrees Fahrenheit.
	J	=	Estimated concentration.
	B	=	Analyte detected in method blank possibly below the reporting limit.
	4,4-DDE	=	4,4-Dichlorodiphenyldichloroethylene.
	4,4-DDT	=	4,4-Dichlorodiphenyltrichloroethane.

Source: American Technical and Analytical Services Inc., Maryland Heights, Missouri. Analysis provided through Environmental Quality Management.

<p align="center">Table 7</p> <p align="center">RAILROAD PROPERTY SAMPLING ANALYTICAL RESULTS</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">DECEMBER 21, 1999 AND APRIL 10, 2000</p>														
Parameter	Sample Designation													
	RS-01	RS-02	RS-03	RS-04	RS-05	RS-06	RS-07	RS-01A	RS-02A	RS-03A	RS-04A	RS-05A	RS-06A	RS-07A
Target Analyte List Metals (mg/kg)														
Antimony	ND	ND	ND	ND	ND	ND	ND	1.85	1.51	2.02	1.71	1.60	ND	1.41
Arsenic	3.98	6.38	3.65	4.58	4.2	3.12	5.69	3.04	4.42	3.81	4.63	4.0	3.33	3.37
Beryllium	0.358	0.548	0.334	0.433	0.423	0.235	0.239	0.239	0.50	0.452	0.427	0.520	0.357	0.391
Cadmium	0.726	1.49	0.560	0.551	0.554	0.473	0.514	1.20	1.98	1.01	0.976	1.01	0.905	1.20
Chromium	17.2	33.1	9.16	12.0	11.4	7.09	23.5	8.04	15.8	13.6	12.3	14.8	10.4	22.3
Copper	14.0	37.6	13.1	14.7	13.7	10.5	13.4	27.0	43.8	15.5	18.2	16.1	9.88	24.3
Lead	32.2	1,920	37.4	20.1	20.3	21.5	60.8	135	117	24.4	35.1	19.7	18.3	161
Nickel	11.2	122.9	9.99	13.7	13.2	9.01	7.97	8.26	11.1	12.5	13.5	14.1	11.0	9.46
Thallium	0.972	0.883	0.586	0.705	0.577	0.374	0.927	ND	ND	ND	ND	ND	ND	ND
Zinc	135	155	107	128	132	92.4	99.4	164	130	136	117	140	143	98.8
PCBs (µg/kg)														
Aroclor 1254	29.9	49.3	22.6	31.5	39.6	30.0	22.7	311	ND	ND	143	44.3	26.3	42
Aroclor 1260	28.5	62.9	41.8	26.9	22.4	16.3	ND	138	39.2	32.4	97	34.7	37	21.1
Total PCBs	58.4	112.2	64.4	58.4	62.0	46.3	22.7	449	39.2	32.4	240	79	63.3	63.1

Key : mg/kg = Milligrams per kilogram.
 µg/kg = Micrograms per kilogram.
 ND = Not detected.
 PCBs = Polychlorinated biphenyls.

Source: American Technical and Analytical Services Inc., Maryland Heights, Missouri. Analysis provided through Environmental Quality Management.

Note: Samples designated with an (A) were collected after removal of site wastes.

<p style="text-align: center;">Table 8</p> <p style="text-align: center;">ANALYTICAL RESULTS FROM LEAD AIR SAMPLING</p> <p style="text-align: center;">SITE Q</p> <p style="text-align: center;">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p style="text-align: center;">NOVEMBER 19, 1999 AND NOVEMBER 20, 1999</p>		
Sample Designation	µg of Lead	Location
AS-01	1.5	Crew member
AS-02	0.81	Crew member
AS-03	5.2	Crew member
AS-04	ND	Site Trailer
AS-05	1.5	Crew member
AS-06	1.2	Crew member
AS-07	0.82	Crew member
AS-08	ND	Site Trailer

Key: µg = Micrograms.
 ND = Not detected.

Source: Environmental Chemical Corporation. Analysis provided through Environmental Quality Management.

<p align="center">Table 9</p> <p align="center">TREATED SOIL PILE INFORMATION</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">DECEMBER 7, 1999 TO DECEMBER 20, 1999</p>			
Waste Pile	Blended Pile	Date Treated	Sample
1	1	12/07/99	BP-01
1	2	12/07/99	BP-02
1	3	12/07/99	BP-03
1	4	12/08/99	BP-04
1	5	12/14/99	BP-05, BP-05A
1	6	12/14/99	
1	7	12/15/99	
5	8	12/15/99	BP-08
1	9	12/15/99 to 12/16/99	
4	10	12/15/99 to 12/16/99	
4	11	12/16/99	BP-11
2	12	12/16/99	
2	13	12/16/99	
2	14	12/17/99	BP-14
2	15	12/17/99	
2	16	12/17/99	
2	17	12/20/99	BP-17
2	18	12/20/99	
2	19	12/20/99	

Source: Environmental Restoration.

Table 10

**TREATED SOIL PILES ANALYTICAL RESULTS
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
DECEMBER 8, 1999 TO JANUARY 6, 2000**

Parameter	Reg. Level	Sample Designation									
		BP-01 12/8	BP-02 12/8	BP-03 12/8	BP-04 12/8	BP-05 12/15	BP-08 12/16	BP-11 12/16	BP-14 12/17	BP-17 12/21	BP-05A* 01/6
TCLP Volatile Organic Compounds (mg/L)											
Vinyl chloride	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	6.0	ND	ND	0.008 J	0.008 J	ND	0.001 J	0.001 J	0.002 J	ND	ND
1,2-Dichloroethane	0.5	ND	ND	ND	ND	ND	ND	ND	0.008	ND	ND
Carbon tetrachloride	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.5	0.310	0.340	0.340	0.490	240	0.140	0.120	0.110	0.340	0.180
Benzene	0.5	0.035	0.029	0.040	0.047	20	0.008	0.007	0.013	0.061 J	ND
Tetrachloroethene	0.7	0.12 J	0.12 J	0.012 J	0.013 J	10 J	0.006	0.005	0.008	ND	ND
Chlorobenzene	100.0	0.016 J	0.013 J	0.013 J	0.014 J	15	0.006	0.005	0.004 J	ND	ND
Methyl ethyl ketone	200.0	ND	ND	ND	ND	ND	0.018	0.007 J	0.061	0.220 J	ND
TCLP Metals (mg/L)											
Arsenic	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Barium	100.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Cadmium	1.0	0.133	0.075	0.077	0.120	0.089	0.098	0.082	0.044	0.95	NA
Chromium	5.0	0.019	0.016	0.016	0.014	0.013	0.013	ND	0.012	0.018	NA
Lead	5.0	0.109	0.211	0.103	0.514	ND	0.114	0.193	ND	0.132	NA
Silver	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Selenium	1.0	ND	ND	ND	ND	ND	0.013	ND	ND	ND	NA

Table 10 (Cont.)

**TREATED SOIL PILES ANALYTICAL RESULTS
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
DECEMBER 8, 1999 TO JANUARY 6, 2000**

Parameter	Reg. Level	Sample Designation									
		BP-01 12/8	BP-02 12/8	BP-03 12/8	BP-04 12/8	BP-05 12/15	BP-08 12/16	BP-11 12/16	BP-14 12/17	BP-17 12/21	BP-05A* 01/6
TCLP Metals (mg/L) (Cont.)											
Mercury	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
PCBs (mg/kg)											
Aroclor 1248	NA	ND	ND	ND	ND	NA	79.8	63.2	ND	165	NA
Aroclor 1254	NA	235	290	396	315	NA	ND	ND	584	ND	NA
Aroclor 1260	NA	244	308	435	484	NA	216	225	292	211	NA
Total PCBs	50	479	598	831	799	NA	295.8	288.2	876	376	NA

Key : mg/L = Milligrams per liter.
 mg/kg = Milligrams per kilogram.
 TCLP = Toxicity characteristic leaching procedure.
 ND = Not detected.
 PCBs = Polychlorinated biphenyls.
 Reg. Level = Regulatory level. TCLP parameters regulated under 40 CFR 261; PCBs regulated under 40 CFR 761.
 J = Estimated concentration.
 NA = Not available.

Source: American Technical and Analytical Services Inc., Maryland Heights, Missouri. Analysis provided through Environmental Quality Management.

* Blend pile 05 sampled twice (BP-05 and BP-05A); sample BP-05A collected to determine TCLP trichloroethene concentration.

<p align="center">Table 11</p> <p align="center">GROUNDWATER SAMPLE ANALYTICAL RESULTS</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">DECEMBER 14, 1999</p>						
Parameter	Sample Designation					
	GW-01	GW-02	GW-03	GW-04	GW-05	GW-06
Volatile Organic Compounds (µg/L)						
Xylene	ND	28,000	32,000	ND	ND	ND
Chloroethane	ND	ND	1,600 J	ND	ND	ND
Methylene chloride	ND	5,900	1,600 J	8	8	9
1,1-Dichloroethane	ND	ND	1,400 J	ND	11	ND
cis-1,2-Dichloroethene	ND	ND	2,700	ND	2 J	ND
Toluene	ND	57,000	94,000	ND	ND	ND
Ethylbenzene	ND	4,700	4,400	ND	ND	ND
n-Propylbenzene	ND	ND	1,200 J	ND	ND	ND
1,3,5-Trimethylbenzene	ND	620 J	2,700	ND	ND	ND
1,2,4-Trimethylbenzene	ND	2,400 J	9,300	ND	ND	ND
p-Isopropyltoluene	ND	ND	580 J	ND	ND	ND
Naphthalene	ND	3,300 B	9,200 B	ND	ND	ND
Semivolatile Organic Compounds (µg/L)						
Phenol	ND	ND	192	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	4 J	ND	ND	ND
3,4-Dimethylphenol	ND	ND	1,345	ND	ND	ND
2,4-Dimethylphenol	ND	ND	1,355	ND	ND	ND
1,2,4-Trichlorobenzene	ND	170 J	12	ND	ND	ND
Naphthalene	ND	5,515	ND	ND	ND	ND
2-Methylnaphthalene	ND	860	24	ND	ND	ND
Diethylphthalate	ND	ND	8 J	ND	ND	ND
Phenanthrene	ND	20 J	1 J	ND	ND	ND
Di-n-butylphthalate	ND	58 J	8 J	2 J	ND	ND
Butylbenzylphthalate	ND	ND	22	ND	ND	ND
Bis (2-ethylhexyl) phthalate	2 J	4,237	72	3 J	7 J	7 J

<p align="center">Table 11 (Cont.)</p> <p align="center">GROUNDWATER SAMPLE ANALYTICAL RESULTS</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">DECEMBER 14, 1999</p>						
Parameter	Sample Designation					
	GW-01	GW-02	GW-03	GW-04	GW-05	GW-06
Target Analyte List Metals (mg/L)						
Antimony	ND	ND	ND	ND	ND	ND
Arsenic	0.049	0.122	0.430	0.041	0.069	0.115
Beryllium	0.007	ND	ND	ND	ND	0.012
Cadmium	0.015	0.057	0.046	ND	ND	ND
Chromium	0.154	0.202	0.074	0.038	0.036	0.299
Copper*	0.231	0.215	0.095	0.095	0.073	0.386
Lead**	0.284	0.432	0.136	0.211	0.094	0.385
Nickel	0.165	0.106	0.062	0.065	0.049	0.311
Selenium	0.030	0.061	0.020	0.041	0.039	0.029
Silver	ND	ND	ND	ND	ND	ND
Thallium	ND	0.010	ND	ND	ND	0.018
Zinc	1.75	1.17	1.25	0.338	0.195	1.62
Mercury	ND	ND	ND	ND	ND	ND
PCBs (µg/L)						
Aroclor 1248	ND	177	ND	8.42	ND	ND
Aroclor 1254	2.86	ND	133	ND	ND	ND
Aroclor 1260	1.12	181	237	ND	ND	ND
Total PCBs	3.98	358	370	8.42	ND	ND
Pesticides (mg/L)						
All parameters	ND	ND	ND	ND	ND	ND
Herbicides (mg/L)						
2,4,5-T	ND	3.8 D	ND	ND	ND	ND

Table 11 (Cont.)

Key: µg/L = Micrograms per liter.
 mg/L = Milligrams per liter.
 ND = Not detected.
 J = Estimated concentration.
 B = Analyte detected in method blank, possibly below the reporting limit.
 PCBs = Polychlorinated biphenyls.
 2,4,5-T = 2,4,5-trichlorophenoxyacetic acid.
 D = Dilution.

Source: American Technical and Analytical Services Inc., Maryland Heights, Missouri. Analysis provided through Environmental Quality Management.

<p align="center">Table 12</p> <p align="center">ANALYTICAL RESULTS OF LABELED DRUM SAMPLES</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">DECEMBER 20, 1999</p>			
Parameter	Sample Designation		
	D-Amchem	D-Dow	D-200 (Vestal)
Flash Point (degrees Fahrenheit)	75	89	94
pH (Standard Units)	5.0	6.0	5.0
Volatile Organic Compounds (mg/kg)			
Xylene (total)	3,600	5,800	1,700
Methylene chloride	160	ND	150
1,1-Dichloroethane	54 J	ND	ND
cis-1,2-Dichloroethene	340	ND	ND
1,1,1-Trichloroethane	200	ND	ND
Benzene	41	ND	ND
Trichloroethene	ND	120 J	ND
4-Methyl-2-pentanone	ND	240 J	470
Toluene	3,500	2,200	1,500
Ethylbenzene	500	630	320
Isopropylbenzene	60 J	230	74
n-Propylbenzene	140	920	200
1,3,5-Trimethylbenzene	270	1,900	490
1,2,4-Trimethylbenzene	700	6,200	1,700
sec-Butylbenzene	ND	170 J	130
p-Isopropyltoluene	54	450	ND
Naphthalene	400	2,900	400
Semivolatile Organic Compounds (mg/kg)			
Phenol	ND	2,720	ND
2-Methylphenol	48	3,160	ND
3,4-Dimethylphenol	86	5,300	ND
2,4-Dimethylphenol	ND	2,600	ND
1,2,4-Trichlorobenzene	15	77	ND

<p align="center">Table 12 (Cont.)</p> <p align="center">ANALYTICAL RESULTS OF LABELED DRUM SAMPLES</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">DECEMBER 20, 1999</p>			
Parameter	Sample Designation		
	D-Amchem	D-Dow	D-200 (Vestal)
Naphthalene	360	3,110	310
2-Methylnaphthalene	20	236	68
Diethylphthalate	ND	ND	2.0 J
Fluorene	ND	7.2 J	ND
4-Nitroaniline	ND	ND	19 J
Pentachlorophenol	ND	ND	9.9 J
Phenanthrene	1.3 J	11.0 J	ND
Di-n-butylphthalate	ND	95	7.4 J
Fluoranthene	ND	2.6 J	ND
Pyrene	0.75 J	3.8 J	ND
Butylbenzylphthalate	48 J	182	ND
bis(2-ethylhexyl) phthalate	78 B	1,110	9.4 J,B
Chrysene	0.77 J	ND	ND
Di-n-octylphthalate	2.2 J,B	8.9 J	1.9 J,B
Target Analyte List Metals (mg/kg)			
Antimony	ND	257	9.09
Arsenic	ND	9.66	ND
Beryllium	ND	ND	ND
Cadmium	ND	479	ND
Chromium	46.2	3,240	1,740
Copper	2.12	2,050	19.9
Lead	11.1	18,400	7,010
Nickel	29.0	49.5	8.07
Selenium	ND	191	ND
Thallium	ND	ND	ND
Zinc	200	1,220	6,610

Table 12 (Cont.) ANALYTICAL RESULTS OF LABELED DRUM SAMPLES SITE Q CAHOKIA, ST. CLAIR COUNTY, ILLINOIS DECEMBER 20, 1999			
Parameter	Sample Designation		
	D-Amchem	D-Dow	D-200 (Vestal)
Mercury	ND	6.17	NA
PCBs (mg/kg)			
Aroclor 1248	60.7	ND	ND
Aroclor 1254	ND	4,140	0.516
Aroclor 1260	40.9	902	0.190
Total PCBs	101.6	5,042	0.706

Key: mg/kg = Milligrams per kilogram.
 mg/L = Milligrams per liter.
 ND = Not detected.
 NA = Not analyzed.
 J = Estimated concentration.
 B = Analyte detected in method blank, possibly below the reporting limit.
 PCBs = Polychlorinated biphenyls.
 µg/kg = Micrograms per kilogram.

Source: American Technical and Analytical Services Inc., Maryland Heights, Missouri. Analysis provided through Environmental Quality Management.

<p align="center">Table 13</p> <p align="center">WASTE DISPOSAL SUMMARY</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">JANUARY 5, 2000 TO APRIL 5, 2000</p>				
Waste Description	Quantity (tons)	Date Shipped	Manifest Number	Disposal Facility
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	107.04	01/05/00	IL9021717	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	108.76	01/05/00	IL9021718	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	108.2	01/05/00	IL9021719	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	115	01/05/00	IL9021720	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	100.1	01/06/00	IL9021721	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	117.58	01/06/00	IL9021722	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	112.06	01/06/00	IL9021723	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	115.66	01/06/00	IL9021724	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	117.31	01/06/00	IL9021726	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	116.07	01/06/00	IL9021727	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	114.1	01/06/00	IL9021728	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	97.8	01/07/00	IL9021729	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	105.91	01/07/00	IL9021730	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	100.4	01/07/00	IL9021731	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	106.29	01/07/00	IL9021732	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	104.59	01/07/00	IL9138001	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	104.63	01/07/00	IL9138002	Safety-Kleen

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	104.39	01/07/00	IL9138003	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	103.28	01/10/00	IL9138004	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	103.2	01/10/00	IL9138005	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	102.18	01/10/00	IL9138006	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	103.68	01/10/00	IL9138007	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	104.59	01/10/00	IL9138012	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	105.36	01/10/00	IL9138008	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	103.48	01/10/00	IL9138010	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	102.11	01/10/00	IL9138011	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	101	01/12/00	IL9138016	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	99.89	01/12/00	IL9138015	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	99.65	01/12/00	IL9138013	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	104.28	01/12/00	IL9138014	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	102.13	01/12/00	IL9138017	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	106.03	01/14/00	IL9138018	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	105.14	01/14/00	IL9138019	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	97.76	01/17/00	IL9138020	Safety-Kleen

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	97.15	01/17/00	IL9138021	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	97.16	01/17/00	IL9138022	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.43	01/17/00	IL9138023	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.98	01/17/00	IL9138024	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	94.49	01/18/00	IL9138025	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.82	01/18/00	IL9138026	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	97.07	01/18/00	IL9138027	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.16	01/18/00	IL9138028	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.59	01/18/00	IL9138029	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.76	01/18/00	IL9138030	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	97.12	01/18/00	IL9138032	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	97.92	01/18/00	IL9138031	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.69	01/18/00	IL9138033	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.83	01/19/00	IL9138034	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.54	01/19/00	IL9138035	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.31	01/19/00	IL9138036	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.59	01/19/00	IL9138051	Safety-Kleen

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.19	01/19/00	IL9138050	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	90.51	01/19/00	IL9138049	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	95.03	01/19/00	IL9138048	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	95.51	01/19/00	IL9138047	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.49	01/19/00	IL9138046	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	102.28	01/20/00	IL9138045	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.61	01/20/00	IL9138044	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.19	01/20/00	IL9138043	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	93.9	01/20/00	IL9138042	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	99.04	01/20/00	IL9138041	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	103.04	01/28/00	IL9138040	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	102.77	01/28/00	IL9138052	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	104.43	01/28/00	IL9138038	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	101.13	01/28/00	IL9138054	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	103.36	01/28/00	IL9138053	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	103.69	01/28/00	IL9138055	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	102.87	01/28/00	IL9138056	Safety-Kleen

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	104.28	01/28/00	IL9138057	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	104.46	01/28/00	IL9138058	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	100.58	01/31/00	IL9138059	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	103.19	01/31/00	IL9138060	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	105.75	01/31/00	IL9138061	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	103.5	01/31/00	IL9138062	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	104.21	01/31/00	IL9138063	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	100.99	01/31/00	IL9138064	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	101.59	01/31/00	IL9138065	Safety-Kleen
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	26.19	03/20/00	IL8579003	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.91	03/20/00	IL8579004	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	19.27	03/20/00	IL8579005	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	27.81	03/20/00	IL8579006	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.56	03/20/00	IL8579007	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.86	03/20/00	IL8579008	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.47	03/20/00	IL8579009	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.92	03/20/00	IL8579010	Milam RDF

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.24	03/20/00	IL8579011	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.93	03/20/00	IL8579012	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.77	03/20/00	IL8579013	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	36.48	03/20/00	IL8579014	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.19	03/20/00	IL8579015	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.26	03/20/00	IL8579016	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.37	03/20/00	IL8579017	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	26.37	03/20/00	IL8579018	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.1	03/20/00	IL8579019	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.95	03/20/00	IL8579020	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.5	03/20/00	IL8579021	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.36	03/20/00	IL8579022	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	26.83	03/20/00	IL8579023	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.32	03/20/00	IL8579024	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	19.68	03/20/00	IL8579025	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	19.06	03/20/00	IL8579026	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.1	03/20/00	IL8579027	Milam RDF

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	29.53	03/20/00	IL8579028	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.19	03/20/00	IL8579029	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.66	03/20/00	IL8579030	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.9	03/20/00	IL8579031	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.29	03/20/00	IL8579032	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.86	03/20/00	IL8579033	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.31	03/20/00	IL8579034	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	27.71	03/20/00	IL8579035	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.33	03/20/00	IL8579036	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.6	03/21/00	IL8579037	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	19.67	03/21/00	IL8579038	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.4	03/21/00	IL8579039	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.95	03/21/00	IL8579040	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.17	03/21/00	IL8579041	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.08	03/21/00	IL8579042	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.25	03/21/00	IL8579043	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.88	03/21/00	IL8579044	Milam RDF

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.17	03/21/00	IL8579045	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.44	03/21/00	IL8579046	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.14	03/21/00	IL8579047	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.5	03/21/00	IL8579048	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.13	03/21/00	IL8579049	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.95	03/21/00	IL8579050	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.9	03/21/00	IL8579051	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.98	03/21/00	IL8579052	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.35	03/21/00	IL8579053	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	19.86	03/21/00	IL8579054	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.37	03/21/00	IL8579055	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.91	03/21/00	IL8579056	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.84	03/21/00	IL8579057	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.32	03/21/00	IL8579058	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.36	03/21/00	IL8579059	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.45	03/21/00	IL8579060	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.25	03/21/00	IL8579061	Milam RDF

<p align="center">Table 13 (Cont.)</p> <p align="center">WASTE DISPOSAL SUMMARY</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">JANUARY 5, 2000 TO APRIL 5, 2000</p>				
Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.37	03/21/00	IL8579411	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.49	03/21/00	IL8579412	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.03	03/21/00	IL8579413	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.78	03/21/00	IL8579414	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.16	03/21/00	IL8579415	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.05	03/21/00	IL8579416	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.84	03/21/00	IL8579417	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.71	03/21/00	IL8579418	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	29.09	03/21/00	IL8579419	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	26.94	03/21/00	IL8579420	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.99	03/21/00	IL8579421	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.79	03/21/00	IL8579422	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	18.34	03/22/00	IL8579423	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.39	03/22/00	IL8579424	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.78	03/22/00	IL8579425	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.18	03/22/00	IL8579426	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.22	03/22/00	IL8579427	Milam RDF

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.02	03/22/00	IL8579428	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	26.15	03/22/00	IL8579429	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.4	03/22/00	IL8579430	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	26.32	03/22/00	IL8579431	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.52	03/22/00	IL8579432	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.8	03/22/00	IL8579433	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.46	03/22/00	IL8579434	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.4	03/22/00	IL8579435	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.65	03/22/00	IL8579436	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.6	03/22/00	IL8579437	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.76	03/22/00	IL8579438	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.46	03/22/00	IL8579439	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23	03/22/00	IL8579440	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.34	03/22/00	IL8579441	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.35	03/22/00	IL8579442	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.1	03/22/00	IL8579443	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.55	03/22/00	IL8579444	Milam RDF

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.89	03/22/00	IL8579445	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.3	03/22/00	IL8579446	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	28.28	03/22/00	IL8579447	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.66	03/22/00	IL8579448	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.12	03/22/00	IL8579449	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.31	03/22/00	IL8579450	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.23	03/22/00	IL8579451	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.21	03/22/00	IL8579452	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.84	03/22/00	IL8579453	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	19.85	03/22/00	IL8579454	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.23	03/22/00	IL8579455	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.94	03/22/00	IL8579456	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.1	03/22/00	IL8579457	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.6	03/22/00	IL8579458	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.29	03/22/00	IL8579459	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	27.97	03/22/00	IL8579460	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.98	03/22/00	IL8579461	Milam RDF

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.72	03/22/00	IL8579462	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	26.62	03/22/00	IL8579463	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25	03/22/00	IL8579002	Milam RDF
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	97.34	03/27/00	IL9138066	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	98.18	03/27/00	IL9138067	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.74	03/27/00	IL9138068	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.18	03/27/00	IL9138069	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	98.91	03/27/00	IL9138070	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	97.06	03/27/00	IL9138071	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	98.43	03/27/00	IL9138072	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	100.74	03/27/00	IL9138074	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	99.31	03/27/00	IL9138075	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	94.63	03/28/00	IL9138076	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	98.85	03/28/00	IL9138077	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	102.82	03/28/00	IL9138078	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	94.12	03/28/00	IL9138079	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.13	03/28/00	IL9138080	Safety-Kleen

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	97.84	03/28/00	IL9138081	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	89.71	03/28/00	IL9138082	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	95.17	03/28/00	IL9138083	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	94.63	03/28/00	IL9138084	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	89.93	03/28/00	IL9138085	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	97.29	03/29/00	IL9138086	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	92.88	03/29/00	IL9138087	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	94.61	03/29/00	IL9138088	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	95.72	03/29/00	IL9138089	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	96.7	03/29/00	IL9138090	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	94.52	03/29/00	IL9138091	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	95.17	03/29/00	IL9138092	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	95.11	03/29/00	IL9138093	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	95.43	03/29/00	IL9138094	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	94.68	03/29/00	IL9138095	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	95.84	03/30/00	IL9138096	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	93.85	03/30/00	IL9138097	Safety-Kleen

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	94.32	03/30/00	IL9138098	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	94.64	03/30/00	IL9138099	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	92.46	03/30/00	IL9138100	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	93.95	03/30/00	IL9112801	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	93.04	03/30/00	IL9112802	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	93.21	03/30/00	IL9112803	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	91.07	03/30/00	IL9112804	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	93.76	03/30/00	IL9112805	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	86.23	03/31/00	IL9112806	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	87.29	03/31/00	IL9112807	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	85.55	03/31/00	IL9112808	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	85.3	03/31/00	IL9112809	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	86.02	03/31/00	IL9112810	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	86.66	03/31/00	IL9112811	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	85.71	03/31/00	IL9112812	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	85.19	03/31/00	IL9112813	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	86.31	03/31/00	IL9112814	Safety-Kleen

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	86.56	03/31/00	IL9112815	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	87.7	03/31/00	IL9112816	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	89.77	04/03/00	IL9112817	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	90.12	04/03/00	IL9112818	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	92.57	04/03/00	IL9112819	Safety-Kleen
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.4	04/03/00	IL8579464	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.55	04/03/00	IL8579465	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.46	04/03/00	IL8579466	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.47	04/03/00	IL8579467	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.5	04/03/00	IL8579468	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.29	04/03/00	IL8579469	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.76	04/03/00	IL8579470	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.36	04/03/00	IL8579471	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.76	04/03/00	IL8579472	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.49	04/03/00	IL8579473	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.46	04/03/00	IL8579474	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	26.99	04/03/00	IL8579475	Milam RDF

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.53	04/03/00	IL8579476	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.51	04/03/00	IL8579477	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.48	04/03/00	IL8579478	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.27	04/03/00	IL8579479	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.76	04/03/00	IL8579480	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.94	04/03/00	IL8579481	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.65	04/03/00	IL8579482	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.76	04/03/00	IL8579483	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.1	04/03/00	IL8579484	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.26	04/03/00	IL8579485	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.09	04/03/00	IL8579486	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	26.65	04/03/00	IL8579487	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.47	04/03/00	IL8579488	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.36	04/03/00	IL8579489	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.02	04/03/00	IL8579490	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.96	04/03/00	IL8579491	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.51	04/03/00	IL8579492	Milam RDF

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22	04/03/00	IL8579493	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	20.97	04/03/00	IL8579494	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	26.73	04/03/00	IL8579495	Milam RDF
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	89.98	04/04/00	IL9112820	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	88.2	04/04/00	IL9112822	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	87.89	04/04/00	IL9112823	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	88.26	04/04/00	IL9112824	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	89.1	04/04/00	IL9112825	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	90.33	04/04/00	IL9112826	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	99.29	04/04/00	IL9112827	Safety-Kleen
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24	04/04/00	IL7761487	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	27.6	04/04/00	IL7761488	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.91	04/04/00	IL7761489	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24	04/04/00	IL7761491	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	23.43	04/04/00	IL7761492	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24	04/04/00	IL7761493	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21	04/04/00	IL7761494	Milam RDF

Table 13 (Cont.)

**WASTE DISPOSAL SUMMARY
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 5, 2000 TO APRIL 5, 2000**

Waste Description	Quantity (Tons)	Date Shipped	Manifest Number	Disposal Facility
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	25.4	04/04/00	IL7761495	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.1	04/04/00	IL7761496	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	26.79	04/04/00	IL7761497	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.7	04/04/00	IL7761498	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	19.79	04/04/00	IL7761499	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24	04/04/00	IL7761500	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.04	04/04/00	IL8579496	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.24	04/04/00	IL8579497	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	24.63	04/04/00	IL8579498	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	22.88	04/04/00	IL8579499	Milam RDF
Low-level PCB Waste 080 Nonhazardous Not Hazardous by D.O.T.	21.28	04/04/00	IL8579500	Milam RDF
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	94.3	04/05/00	IL9112828	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	91.78	04/05/00	IL9112829	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	91	04/05/00	IL9112831	Safety-Kleen
Waste Environmentally Hazardous Substances, Solid, n.o.s., (Contains PCB's), 9, UN3077, PGIII	91.7	04/05/00	IL9112832	Safety-Kleen

Table 13 (Cont.)

Key: n.o.s. = Not otherwise specified.

Safety-Kleen: Safety-Kleen (Lone & Grassy Mountain), Inc.,
5 M E and 1 M N of Junction Highway 281 & 412
Waynoka, OK 73860
U.S. EPA ID: OKD065438376
Shipped via rail car.

Milam RDF: Milam Recycling and Disposal
601 Madison Road
East St. Louis, IL 62201
U.S. EPA ID: Not available
Illinois EPA ID: 1630450001
Shipped via truck.

Site Q generator ID: ILD000605790

Table 14 AREA 4 ROAD SAMPLES SITE Q CAHOKIA, ST. CLAIR COUNTY, ILLINOIS JANUARY 18, 2000		
Parameter	Sample Designation	
	Area-04RoadA	Area-04RoadB
Volatile Organic Compounds (mg/kg)		
Xylene (total)	NA	4.8
Methylene chloride	NA	0.230 J,B
Toluene	NA	0.410 J
Chlorobenzene	NA	6.7
Ethylbenzene	NA	0.56 J
Isopropylbenzene	NA	0.510 J
n-Propylbenzene	NA	0.66
1,3,5-Trimethylbenzene	NA	0.52 J
1,2,4-Trimethylbenzene	NA	1.9
p-Isopropyltoluene	NA	1.0
1,4-Dichlorobenzene	NA	15
1,2-Dichlorobenzene	NA	0.45 J
Naphthalene	NA	0.72 B
Metals (mg/kg)		
Aluminium	NA	2,050
Arsenic	NA	1.37
Barium	NA	25.4
Beryllium	NA	0.134
Cadmium	NA	1.89
Calcium	NA	145,000
Chromium	NA	8.67
Cobalt	NA	0.571
Copper	NA	5.18
Iron	NA	1,780
Lead	NA	5.12

Table 14 (Cont.)		
AREA 4 ROAD SAMPLES SITE Q CAHOKIA, ST. CLAIR COUNTY, ILLINOIS JANUARY 18, 2000		
Parameter	Sample Designation	
	Area-04RoadA	Area-04RoadB
Metals (mg/kg) (Cont.)		
Magnesium	NA	1.800
Manganese	NA	102
Nickel	NA	2.82
Potassium	NA	325
Sodium	NA	492
Vanadium	NA	9.24
Zinc	NA	528
Semivolatile Organic Compounds (mg/kg)		
1,4-Dichlorobenzene	NA	8.8
Naphthalene	NA	1.2 J
2-Methylnaphthalene	NA	1.1 J
Phenanthrene	NA	1.8 J
Di-n-octylphthalate	NA	2.3 J,B
PCBs (mg/kg)		
Aroclor 1254	10.3	NA
Aroclor 1260	15.6	NA
Total PCBs	25.9	NA

Key: mg/kg = Milligrams per kilogram.
 NA = Not analyzed.
 PCBs = Polychlorinated biphenyls.
 J = Estimated concentration.
 B = Analyte detected in method blank possibly below the reporting limit.

Source: American Technical and Analytical Services Inc., Maryland Heights, Missouri. Analysis provided through Environmental Quality Management.

Table 15

**WASTE PILES 8 - 12 ANALYTICAL RESULTS
SITE Q
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS
JANUARY 25, 2000 TO MARCH 14, 2000**

Parameter	Reg. Level	Sample Designation										
		WP-8-1	WP-8-2	WP-8-PF	WP-9-1	WP-9-2	WP-10-1	WP-10-2	WP-11-1	WP-11-2	WP-12-1	WP-12-2
Ignitability (°F) / 140	140	>200	>200	NA	>200	>200	>200	>200	>200	>200	>200	>200
pH (standard units at 25 °C)	<2.0 or >12.5	7.8	8.0	NA	7.4	7.2	7.1	7.1	7.27	7.37	7.49	7.28
Paint Filter (pass/fail)	fail	fail	fail	pass	pass	pass	pass	pass	pass	pass	pass	pass
Reactive Cyanide (mg/kg)	see 261.23	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
Reactive Sulfide (mg/kg)	see 261.23	16.7	4.72	NA	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Volatile Organic Compounds (mg/L)												
Trichloroethene	0.5	ND	ND	NA	0.002 J	ND	0.005	ND	0.008	0.006	ND	0.003 J
Benzene	0.5	0.20	ND	NA	0.001 J	0.002 J	ND	ND	0.004 J	0.004 J	ND	ND
Tetrachloroethene	0.7	ND	ND	NA	0.097	0.110 J	ND	ND	0.002 J	0.002 J	ND	ND
Chlorobenzene	100	0.082	0.032	NA	0.002 J	0.003 J	0.025	0.018	0.013	0.014	ND	ND
TCLP Semivolatile Organic Compounds (mg/L)												
o-cresol	200	ND	ND	NA	0.015 J	0.005 J	3.00	0.940	4.50	4.50	0.003 J	ND
m, p-cresol	200	ND	ND	NA	0.007 J	0.008 J	2.50	0.440	1.04	1.04	0.003 J	ND
Total cresols	200	ND	ND	NA	0.022 J	0.013 J	5.50	1.38	5.54	5.54	0.006 J	ND
1,4-Dichlorobenzene	7.5	ND	ND	NA	0.017 J	0.012 J	ND	ND	0.064	0.064	ND	ND
Pentachlorophenol	100	ND	ND	NA	ND	ND	ND	ND	ND	0.02 J	0.130	0.061
2,4,5-Trichlorophenol	400	ND	ND	NA	ND	ND	ND	ND	0.002 J	0.001 J	ND	ND
2,4,6-Trichlorophenol	2.0	ND	ND	NA	ND	ND	ND	ND	0.001 J	0.001 J	0.014 J	0.024
2,4-Dinitrotoluene	0.13	ND	ND	NA	ND	ND	ND	ND	0.001 J	ND	ND	ND

Table 15 (Cont.)												
WASTE PILES 8 - 12 ANALYTICAL RESULTS												
SITE Q												
CAHOKIA, ST. CLAIR COUNTY, ILLINOIS												
JANUARY 25, 2000 TO MARCH 14, 2000												
Parameter	Reg. Level	Sample Designation										
		WP-8-1sS	WP-8-2	WP-8-PF	WP-9-1	WP-9-2	WP-10-1	WP-10-2	WP-11-1	WP-11-2	WP-12-1	WP-12-2
TCLP Metals (mg/L)												
Arsenic	5.0	ND	ND	NA	ND	ND	0.15	0.10	ND	ND	ND	ND
Barium	100	ND	1.00	NA	1.08	1.01	1.6	1.24	ND	ND	ND	ND
Cadmium	1.0	ND	0.020	NA	0.032	0.043	0.04	0.03	0.064	0.054	0.028	0.029
Lead	5.0	ND	0.110	NA	0.374	0.992	2.6	1.7	0.80	0.67	0.64	0.29
TCLP Pesticides (mg/L)												
Heptachlor epoxide	0.008	0.000247	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Herbicides (mg/L)												
PCBs (mg/kg)												
Aroclor 1248	50	ND	ND	NA	ND	ND	ND	ND	ND	97.0	ND	ND
Aroclor 1254	50	4.16	13.9	NA	214.0	138.0	78.4	267.0	122.0	109.0	34.0	34.3
Aroclor 1260	50	1.43	3.4	NA	118.0	80.1	38.0	ND	61.2	77.8	ND	ND
Total PCBs	50	5.59	17.3	NA	332.0	218.1	116.4	267.0	183.2	283.8	34.0	34.3

Key:	mg/L	=	Milligrams per liter.	Reg. level	=	Regulatory level. TCLP parameters regulated under 40 CFR 261; PCBs regulated under 40 CFR 761.
	°F	=	Degrees Fahrenheit.	>	=	Greater than.
	°C	=	Degrees Celsius.	TCLP	=	Toxicity characteristic leaching procedure.
	mg/kg	=	Milligrams per kilogram.	PCBs	=	Polychlorinated biphenyls.
	ND	=	Not detected.	261.23	=	Refers to 40 CFR 261.23.
	J	=	Estimated concentration.			
	NA	=	Not analyzed.			

Source: American Technical and Analytical Services Inc., Maryland Heights, Missouri. Analysis provided through Environmental Quality Management.

Note: Analytical results for WP-8-1 and WP-8-2 were submitted to the laboratory as samples Area-04-P-1 and Area-04-P-2. This was done to present the results of those waste piles present on site.

<p align="center">Table 16</p> <p align="center">POST REMOVAL SOIL SAMPLE DESCRIPTIONS</p> <p align="center">SITE Q</p> <p align="center">CAHOKIA, ST. CLAIR COUNTY, ILLINOIS</p> <p align="center">APRIL 13 AND 17, 2000</p>				
Sample	Date	Depth (bgs)	Sample Description	Location
A1-01	4/13/00	6" to 1'	Sand	Area 1, east pond
A1-02	4/13/00	6" to 1'	Reddish brown sand	Area 1, east pond
A1-03	4/13/00	6" to 1'	Sand, black sediment and organic material	Area 1, east pond
A1-01	4/13/00	6" to 1'	Sand	Area 2, east pond
A1-02	4/13/00	6" to 1'	Sand and dark brown sediment	Area 2, east pond
A3-01	4/13/00	1' to 1.5'	Sand, clay and dark sediment	Area 3, east pond
A3-02	4/13/00	6" to 1'	Sand, dark sediment (petroleum odor present)	Area 3, east pond
A3-03	4/13/00	1' to 1.5'	Sand, clay, and brown sediment	Area 3, west bank of the east pond
A3-04	4/13/00	1' to 1.5'	Soil and dark sediment (MW)	Area 3, north bank of the east pond
A4-01	4/13/00	8" to 1'	Sand with fine sediment	Area 4, north pond
A4-02	4/13/00	1' to 1.5'	Sand with clay (MW)	Area 4
A4-03	4/13/00	1' to 1.5'	Soil (MW)	Area 4
A6-01	4/13/00	6" to 8"	Soil intermixed with orange/yellow material	Area 6
A6-02	4/13/00	6" to 8"	Soil/clay intermixed with black/yellow pieces of waste	Area 6
A6-03	4/13/00	6" to 1'	Black suspect material, clay and soil	Area 6
A6-04	4/13/00	6" to 1'	Reddish brown material and soil (MW)	Area 6
A6-05	4/13/00	6" to 1'	Dark granular material	Area 6
A7-01	4/17/00	1' to 1.5'	Sand and clay	Area 7
A7-02	4/17/00	6" to 1'	Sand and clay	Area 7
A7-03	4/17/00	1' to 1.5'	Sand, clay and gelatinous brown material	Area 7
A7-04	4/17/00	6" to 8"	Sand and clay	Area 7
A8-01	4/17/00	6" to 1'	Soil, clay and red/grey material	Area 8
A8-02	4/17/00	6" to 1'	Soil (MW)	Area 8
A8-03	4/17/00	1' to 1.5'	Sandy clay	Area 8

Key: bgs = Below ground surface.
 MW = Municipal waste present in boring.
 ' = Feet.
 " = Inch.

Table 17 POST REMOVAL SOIL SAMPLE ANALYTICAL RESULTS SITE Q CAHOKIA, ST. CLAIR COUNTY, ILLINOIS APRIL 13, 2000												
Parameter	Sample Designation											
	A1-01	A1-02	A1-03	A2-01	A2-02	A3-01	A3-02	A3-03	A3-04	A4-01	A4-02	A4-03
PCBs (mg/kg)												
Aroclor 1248	ND	16.1	ND	ND	22.9	ND	34.2	30.9	4.25	0.037	1.39	2.81
Aroclor 1254	190	22.4	456	1.15	29.8	168	15.9	52.6	6.41	0.0433	1.25	2.75
Aroclor 1260	140	44.2	ND	0.663	22.3	47.2	ND	13.6	3.69	0.0220	0.649	1.430
Total PCBs	330	82.7	456	1.81	75	215.2	50.1	97.1	14.35	0.102	3.29	6.99

Table 17 (Cont.) POST REMOVAL SOIL SAMPLE ANALYTICAL RESULTS SITE Q CAHOKIA, ST. CLAIR COUNTY, ILLINOIS APRIL 13 AND 17, 2000												
Parameter	Sample Designation											
	A6-01	A6-02	A6-03	A6-04	A6-05	A7-01	A7-02	A7-03	A7-04	A8-01	A8-02	A8-03
PCBs (mg/kg)												
Aroclor 1248	61.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.85
Aroclor 1254	93.1	3.32	13.5	8.01	1.52	5.88	2.77	3.54	9.0	95.8	16.5	4.79
Aroclor 1260	38.6	0.779	4.77	2.74	1.9	3.2	1.54	2.39	4.85	ND	ND	3.1
Total PCBs	193	4.1	18.3	10.8	4.4	9.08	4.31	5.93	13.9	95.8	16.5	11.7

Key : mg/kg = Milligrams per kilogram.
 ND = Not detected.
 PCBs = Polychlorinated biphenyls.

Source: American Technical and Analytical Services Inc., Maryland Heights, Missouri. Analysis provided through Environmental Quality Management.